

## CLIMATOLOGICAL DATA FOR AUGUST, 1911.

## DISTRICT No. 6, MISSOURI VALLEY.

MONTROSE W. HAYES, District Editor.

## GENERAL SUMMARY.

The greater part of August was moderately cool and wet in most of the district. There were two hot periods, but they were of short duration, and there were some localities in which there was insufficient moisture, but as a rule there was very general relief from the hot, dry weather that prevailed in the lower two-thirds of the drainage area during May, June, and July. Pasturage and late crops were improved, and the ground was put in good condition for fall plowing. Local storms occurred in Montana, South Dakota, and Nebraska, and the accompanying wind and hail were destructive to crops and buildings. Floods in the Republican and Solomon Rivers in Kansas damaged crops and washed out some railroad beds. Light frost formed in localities in western Iowa and northern Nebraska on the 28th and was injurious to some late vegetables. On the latter days of the month killing frosts occurred locally in Montana, North Dakota, and northern and western South Dakota. They were considerably earlier than usual, but apparently caused minor damage only.

## TEMPERATURE.

There were two periods of hot weather culminating on the 10th and 15th, and in one or both of these periods all States in the district except North Dakota had temperatures of  $100^{\circ}$  or higher. The highest was  $109^{\circ}$  on the 10th in Nebraska, Kansas, and Missouri. During the first six or seven days there was a slight deficiency in the temperature, and after the 19th or 20th there was a marked deficiency. The thermometer readings from the 25th to the end of the month were unusually low for the season, and temperatures below the freezing point occurred in parts of all the States of the district except Kansas, Missouri, and Iowa. The lowest was  $16^{\circ}$  at Bowen, Mont., on the 25th.

## PRECIPITATION.

In the mountains from the Yellowstone National Park southward into Colorado, in extreme western Kansas, western Iowa, and northwestern Missouri the precipitation was deficient. The region of greatest deficiency was in an area extending for a distance of about 50 miles on either side of the Missouri-Iowa line to the west of the Grand River. The greatest excess was in north-central Kansas, Nebraska, and southern South Dakota and was caused, not by any general rain, but by heavy local showers that occurred on varying dates during the first week of the month. In eastern Kansas, southeastern Nebraska, Iowa, and Missouri the wettest periods were from the 1st to the 7th and from the 18th to the 22d. During the remainder of the month there were frequent showers, but they were very local in character and were generally light. In the other parts of the district precipitation was fairly well distributed through the first 25 days of the month, but was heaviest before the 10th. The greatest monthly total was 12.04 inches at Mount Vernon, Mo., and the greatest amount in 24 consecutive hours was 7.55 inches at Alma, Nebr., on the 2d. Traces of snow fell in Montana, Wyoming, Colorado, and South Dakota.

## RIVERS.

The Missouri River was abnormally low, but its stages were by no means unprecedented. Lower stages prevailed in August of 1897, 1900, 1901, and 1910, while the stages of August, 1874, were very little higher than those that prevailed during the month just passed. At Hermann, Mo., 103 miles from the mouth of the Missouri River, there was very little fluctuation. The highest water was 8.5 feet on the 1st and the lowest was 6 feet on the 27th. The small streams as a rule had nearer a normal flow than in July. Heavy rains over the watersheds of the Republican and Solomon Rivers in Kansas caused rises in those streams to points above the flood stage. No other floods occurred.

## A PHENOMENON OF LIGHTNING DISCHARGE.

By Prof. FRANCIS E. NIPHER.

Everyone has probably noticed the brief dash of large raindrops which sometimes occurs immediately after an overhead peal of thunder. I have never seen a satisfactory explanation of the cause for this phenomenon. I offer one which has been suggested from results of about five years of work on electric discharge.<sup>1</sup> I have published reproductions of discharge effects over photographic films which seem to fully justify the following conclusions.

Every disruptive lightning discharge which has its terminals in air terminates as sheet lightning at one end and forked lightning at the other end.

The region of sheet lightning is one in which the air molecules have less than their normal charge of negative corpuscles. It is a region in which the air is in a condition of conduction. The disruptive channel ends in a diffused discharge. Such effects are easily produced on photographic plates.

The region of forked lightning at the other end of the discharge channel is one in which the air is overcharged with negative corpuscles. This region is not a region of conduction. The channel of discharge, along which the negative corpuscles are passing to the sheet-lightning end of the discharge, here develops tributary discharge channels which penetrate to various parts of this overcharged region. They are somewhat like tributaries to a river. They have that appearance on the photographic plate when the discharge is through the air in close contact with the film. These tributaries are the so-called "forks."

Before the lightning stroke the falling negatively overloaded drops repel each other. They will not coalesce. After the discharge a large number of drops have lost their negative overcharge. But these branching discharge channels have not reached all of the drops. Some are still highly charged. These two groups of drops attract each other. They are already falling, and they coalesce as they continue their path to earth.

The forked end of the discharge is usually hidden in the rain cloud. The sheet-lightning end of it is probably above the clouds in most cases.

<sup>1</sup> Instructive articles containing results of this work are to be seen in Transactions of the Academy of Science of St. Louis, Vol. XIX, Nos. 1 and 4, and Vol. XX, No. 1; Proceedings of American Philosophical Society, Vol. 1, 1911; and Science of Sept. 1, 1911.—*Dist. Ed.*

TABLE 1.—Climatological data for August, 1911. District No. 6, Missouri Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.				
<i>Wyoming.</i>																					
Arapahoe.	Fremont.	2	.	.	.	.	.	.	.	0.22	.	0.16	0	2	16	15	0	sw.	A. E. Dietz.		
Barnum.	Johnson.	5,500	6	.	.	.	.	.	.	0.85	.	0.85	0	2	18	3	1	w.	Thos. Freeguard.		
Basin.	Bighorn.	3,862	12	66.2	- 5.9	96	19	38	25†	45	0.28	+ 0.06	0.23	0	2	27	3	1	nw.	O. J. Robertson.	
Bennett.	Carbon.	2	.	.	.	.	.	.	.	1.03	.	0.54	0	4	23	8	0	w.	Chas. C. Young.		
Big Creek Station.	do.	7,500	57.2	.	85	19	27	23	50	1.61	.	0.67	0	8	6	18	4	sw.	U. S. Forest Service.		
Burns.	Laramie.	5,400	2	71.1	.	96	20	53	4	32	0.58	0.33	0	2	.	.	.	nw.	Alex. Hastie.		
Casper.	Natrona.	5,101	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	m.	M. C. Cook.		
Centennial.	Albany.	8,074	8	58.4	.	84	18	34	3†	40	0.97	.	0.27	0	10	10	8	13	w.	Louis A. Gregory.	
Cheyenne.	Laramie.	6,088	40	65.0	- 0.8	90	8†	41	28	38	1.35	- 0.12	0.80	0	7	6	19	6	s.	U. S. Weather Bureau.	
Chugwater.	do.	5,282	10	64.8	- 1.0	95	31	31	25	53	0.58	- 0.42	0.20	0	4	13	13	2	se.	A. H. Woolever.	
Clark.	Park.	4,320	5	64.2	.	92	13	41	28	36	1.17	.	0.45	0	7	13	9	9	n.	Chas. A. C. Snow.	
Cody.	do.	5,000	4	62.9	.	95	19	32	28	50	0.85	.	0.21	0	8	15	9	7	w.	C. W. Dibble.	
Crazy Creek.	do.	6,528	5	51.0	.	83	19	20	25	57	0.57	.	0.23	0	8	21	7	3	e.	Jas. Smith.	
Dome Lake.	Sheridan.	8,821	3	47.8	.	70	20	23	27†	33	0.70	.	0.45	T.	5	19	7	5	w.	Abe Mills.	
Douglas.	Converse.	4,793	2	66.2	.	96	20	32	24	43	0.85	.	0.38	0	5	.	.	.	Henry C. Miller.		
Dubois.	Fremont.	6,909	4	57.0	.	86	18	28	26	50	T.	.	T.	0	0	17	14	0	w.	Dr. F. H. Welty.	
Eaton's Ranch.	Sheridan.	4,600	6	68.0	.	93	31	33	28	47	0.90	.	0.37	0	4	15	11	2	n.	F. A. Eaton.	
Echeta.	Crook.	4,200	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	m.	M. R. Hunter.		
Elk Mountain.	Carbon.	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	Do.	Wm. Richardson.		
Encampment.	do.	7,322	2	63.0	.	87	19	37	3†	41	0.74	- 0.42	0.50	0	4	6	10	15	1	sw.	U. S. Forest Service.
Ervay.	Natrona.	6,400	2	.	.	.	.	.	.	.	.	.	0.30	0	6	.	.	.	Frank Jameson.		
Fort Laramie.	Laramie.	4,270	33	69.2	- 2.2	103	15	34	25	50	0.37	- 0.56	0.21	0	3	20	11	0	nw.	John Hunton.	
Fox Park.	Albany.	9,015	1	50.0	.	77	19†	19	25	49	1.28	.	0.40	0	7	12	18	1	.....	U. S. Forest Service.	
Germany.	Bighorn.	4,342	64.0	.	.	.	.	.	.	.	.	.	0.05	0	3	23	6	2	nw.	L. E. Watson.	
Gillette.	Crook.	4,546	5	64.2	.	93	8	36	28	40	0.64	.	0.25	0	7	13	15	3	.....	S. D. Perry.	
Horse Creek.	Fremont.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.....	U. S. Forest Service.		
Hunters Station.	Johnson.	8,000	5	52.7	.	83	19	38	28	41	0.63	.	0.21	0	5	21	3	7	w.	Do.	
Hyattville.	Bighorn.	4,632	12	67.0	- 1.2	99	20	38	22†	43	1.13	.	0.32	0	7	18	11	2	nw.	Wm. Booth.	
Jireh.	Converse.	5,050	1	.	.	.	.	.	.	.	.	.	0.35	0	5	21	3	7	se.	P. L. Ford.	
Kirtley.	Park.	9,187	3	48.8	.	95	20	35	28	42	0.85	- 0.74	0.20	0	5	17	14	0	w.	D. M. Zund Brunnen.	
Kirwin.	Crook.	4,500	2	.	.	.	.	.	.	.	.	.	0.54	0	8	7	23	5	3	w.	C. L. Tewksbury.
Lagrange.	Laramie.	4,510	1	.	.	.	.	.	.	.	.	.	0.48	0	7	23	5	3	w.	Geo. A. Knowles.	
Lander.	Fremont.	5,372	19	63.8	- 1.9	93	18	35	25	45	0.22	- 0.32	0.15	0	4	21	9	1	w.	Owen Shupp.	
Laramie.	Albany.	7,188	20	61.1	- 0.8	86	31	33	3†	43	0.83	- 0.24	0.30	0	12	21	9	1	se.	U. S. Weather Bureau.	
Leo.	do.	6,878	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	University of Wyoming.		
Lolabah Ranch.	Park.	7,052	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	m.	C. A. Cowdin.		
Lovell.	Bighorn.	3,825	7	64.2	.	95	19	34	28	49	0.41	.	0.15	0	5	14	11	6	n.	Mary E. Painter.	
Lusk.	Converse.	5,007	21	61.2	- 2.4	94	20	35	24†	43	1.02	- 0.08	0.41	0	3	.	.	.	Do.	R. Fred Harrison.	
Manville.	do.	5,050	1	.	.	.	.	.	.	.	.	.	0.45	0	8	21	8	2	ne.	D. E. Goddard.	
Moorecroft.	Crook.	4,111	8	67.2	.	108	14	38	22†	60	1.75	.	0.40	0	11	11	6	14	.....	C. A. Sherman.	
Moore.	Albany.	6,000	10	63.8	- 0.9	92	8†	29	25	55	0.75	- 0.57	0.28	0	6	9	15	7	w.	Edwin Moore.	
New Castle.	Weston.	4,319	4	65.4	.	99	15	36	28	42	3.69	.	1.10	0	9	16	11	4	n.	Dr. S. W. Johnson.	
Pathfinder.	Natrona.	5,735	5	.	.	94	19	.	.	.	0.11	.	0.06	0	2	16	12	3	ne.	U. S. Reclamation Service.	
Phillips.	Laramie.	4,900	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	m.	Mrs. Arthur Rugg.		
Pine Bluff.	do.	5,038	9	.	.	.	.	.	.	.	0.65	.	0.30	0	6	6	15	1	sw.	C. L. Beatty.	
Powell.	Park.	4,376	4	64.4	.	93	18	36	28	46	0.51	.	0.25	0	5	6	25	0	nw.	U. S. Reclamation Service.	
Rawlins.	Carbon.	6,748	9	64.6	.	90	19	34	25	43	0.08	- 0.39	0.05	0	2	21	7	3	nw.	E. J. Ehrenfeld.	
Riverton.	Fremont.	4,960	2	65.2	.	94	18	35	25	47	1.00	.	0.40	0	4	13	17	1	e.	F. H. Allyn.	
Rocky Point.	Crook.	6,785	13	62.2	- 1.1	80	19	33	3	46	1.12	+ 0.13	0.47	0	8	15	15	1	sw.	P. Woxen.	
Saratoga.	Carbon.	57.3	.	.	.	81	19	32	27	37	1.40	.	0.40	0	9	7	19	0	w.	Frederick Clark.	
Seven Mile Creek.	Sheridan.	3,790	16	63.0	- 1.6	94	31	31	28	48	1.24	+ 0.66	0.52	0	8	10	9	12	nw.	U. S. Forest Service.	
Sheridan.	Park.	5,385	5	64.4	.	95	19	42	23	38	0.53	.	0.40	0	3	19	11	2	nw.	U. S. Weather Bureau.	
Soldiers Home.	Johnson.	4,635	19	.	.	96	19	21	28	.	0.60	- 0.26	0.13	0	8	12	2	17	n.	U. S. Reclamation Service.	
South Pass City.	Fremont.	7,873	9	54.1	.	82	19	21	25	47	0.37	.	0.35	0	2	20	11	0	sw.	Geo. L. Courtney.	
Sundance.	Crook.	63.3	.	.	.	93	15	30	28	42	.	.	1.34	0	11	17	7	1	sw.	John Sherlock.	
Thermopolis.	Fremont.	4,350	7	68.6	.	99	20	39	25	52	0.36	.	0.10	0	5	20	11	0	sw.	Geo. W. Ashdown.	
Verona.	Sheridan.	4,360	2	.	.	97	15	40	25	48	1.24	.	0.53	0	4	3	28	0	se.	A. L. Duhig.	
Wheatland.	Laramie.	68.2	.	.	.	97	15	40	25	48	0.43	.	0.12	0	5	15	12	4	n.	O. A. Roade.	
Winters Ranch.	Carbon.	7,400	1	.	.	90	4†	39	27	40	0.59	.	0.27	0	4	15	14	2	sw.	A. De F. Snively.	
Wiley.	Park.	5,375	2	67.8	.	90	4†	39	27	40	0.62	.	0.27	0	5	21	7	3	w.	Ira G. Wiant.	
Woodrock.	Sheridan.	66.8	.	.	.	100	12†	35	25	49	1.72	.	0.41	0	10	18	11	3	sw.	Thos. S. Harrison.	
Worland.	Bighorn.	4,207	4	66.8	.	95	14	36	25	47	0.80	.	0.11	0	6	16	14	1	nw.	U. S. Forest Service.	
Wyncote.	Laramie.	4,207	4	66.8	.	95	14	36	25	47	0.84	.	0.64	0	2	19	9	3	e.	Harry S. Smith.	
Yellowstone Park.	National Park.	6,200	23	56.4	- 4.5	84	18	33	24	42	0.66	- 0.36	0.51	0	6	15	15	1	sw.	U. S. Reclamation Service.	
(1) Fountain.	Cascade.	5,200	13	57.0	- 2.0	85	14†	32	24†	44	3.66	+ 2.17	0.80	0	15	13	6	12	w.	U. S. Army.	
(2) Gallatin.	Gallatin.	4,700	14	.	.	81	17†	23	25	52	0.15	.	0.15	0	1	26	0	5	n.	Do.	
(3) Grand Canyon.	do.	7,900	4	51.1	.	82	19	23	25	51	0.40	.	0.15	0	5	26	4	1	n.	Do.	
(4) Lake Yellowstone.	do.	7,733	7	51.0	.	79	19	25	25	45	0.21	.	0.10	0	4	13	0	18	s.	Do.	
(5) Norris.	do.	7,525	7	49.5	.	79	17†	20	25	52	0.58	.	0.41	0	4	23	1	7	sw.	Do.	
(6) Riverside.	do.	6,500	5	52.0	.	83	19	28	7	51	1.15	.	0.40	0	6	26	0	5	w.	Do.	
(7) Soda Butte.	do.	7,000	6	52.2	.	86	18†	20	27	55	0.71	.	0.43	0	8	24	5	2			

TABLE 1.—*Climatological data for August, 1911. District No. 6—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.		
<i>Montana—Continued.</i>																				
Busby.	Rosebud.	8	64.4	.....	97	13	32	22	49	1.46	.....	0.47	0	11	14	12	5	ne.	Rev. G. A. Linscheid.	
Busteed.	Sweet Grass.	4	60.5	.....	89	13	31	28	42	2.69	.....	1.15	0	8	11	15	5	ne.	T. H. Busteed.	
Cabin Creek.	Beaverhead.	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.47	0	3	24	7	0	nw.	W. J. Crowell.	
Canyon Ferry.	Lewis and Clark.	3,644	63.4	-2.3	92	19	36	24	41	0.89	-0.12	0.55	0	7	18	6	7	sw.	A. C. Pratt.	
Cascade.	Cascade.	3,361	70.8	.....	93	19	34	24	49	2.77	.....	0.74	0	13	15	11	5	sw.	Dr. E. E. James.	
Chessman Reservoir.	Lewis and Clark.	5,275	52.9	.....	80	19	29	27	38	1.55	.....	0.40	0	8	18	2	11	sw.	C. D. Schmidt.	
Chester.	Chouteau.	3,140	70.2	.....	91	19	31	10†	50	1.34	.....	0.62	0	8	16	7	8	sw.	E. D. Keith.	
Chinook.	do.	2,502	63.0*	-3.7	90°	19†	30°	28	48°	0.99	-0.14	0.30	0	8	18°	4°	4°	w.	T. O' Hanlon Co.	
Chouteau.	Teton.	3,810	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. J. Moore.	
Clearcreek.	Chouteau.	6	59.8°	.....	87°	29†	30°	27	38°	2.89	.....	0.98	0	9	13b	10b	6b	w.	Cortez Sedgewick.	
Clemens.	Lewis and Clark.	4,672	2	.....	.....	.....	.....	.....	.....	.....	.....	2.33	0	13	10	9	12	w.	Frank Eberl.	
Clydepark.	Park.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.47	0	8	13	9	9	.....	Dr. T. B. Marquis.	
Conrad.	Teton.	58.6	.....	91°	18	32	27	46°	2.45	.....	0.79	0	12	18	5	8	w.	I. S. Martine.		
Copper.	Meagher.	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.16	0	7	13	10	8	w.	Orville Harris.	
Crow Agency.	Rosebud.	3,041	65.4	-3.9	98°	18	32b	22†	56°	0.87	-0.10	0.35	0	10	6b	3b	20b	ne.	Ira R. Bamber.	
Culbertson.	Valley.	1,927	67.7	.....	100	12†	32	22†	53	0.99	.....	0.42	0	4	7	16	8	.....	G. H. Coulter.	
Cummings.	Carbon.	1	56.6°	.....	86°	22	28°	24	57°	1.48	.....	0.52	0	5	17°	11°	0°	.....	John W. Brimmer.	
Cut Bank.	Teton.	3,700	59.2	-0.7	89	19	29	27	46	0.60	-0.53	0.16	0	5	22	5	4	w.	Chas. N. Thomas.	
Denton.	Fergus.	3,500	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. J. Greisenauer.	
Dillon.	Beaverhead.	5,147	60.0	-2.1	90	18	32	37	53	1.44	+ 0.10	0.47	0	10	11	14	6	sw.	Prof. J. E. Monroe.	
Dirty Creek.	Meagher.	6,000	2	.....	.....	.....	.....	.....	.....	.....	.....	2.66	0	10	11	12	8	w.	Lewis Cameron.	
Dry Creek.	Broadwater.	5,500	2	.....	.....	.....	.....	.....	.....	.....	.....	0.67	0	8	11	18	2	w.	J. C. Stuart.	
Dry Wolf Camp.	Cascade.	6,000	2	.....	.....	.....	.....	.....	.....	.....	.....	3.54	0	11	10a	9a	11a	sw.	Mrs. R. J. Eveleth.	
East Gallatin River.	Gallatin.	6,000	3	.....	.....	.....	.....	.....	.....	.....	.....	1.74	0	8	16	10	5	w.	John Eberhart.	
Ekalaka.	Custer.	11	64.2	.....	95	13†	32	28	45	2.77	.....	1.42	0	13	15	10	6	n.	Wm. Freese.	
Elkhorn.	Jefferson.	6,576	3	.....	.....	.....	.....	.....	.....	.....	.....	1.25	0	8	7	16	8	w.	James Heagan.	
Evans.	Cascade.	4,900	4	.....	.....	.....	.....	.....	.....	.....	.....	0.44	0	8	7	16	8	.....	H. Thrasher.	
Fallon.	Custer.	2,208	65.0	.....	100	13	32	28	47	2.04	.....	0.60	0	7	13	8	10	w.	Mrs. A. C. Gifford.	
Fish Creek.	Silver Bow.	8,500	51.2	.....	74	18	28	24	34	2.31	.....	0.99	0	8	17	8	6	w.	O. B. Tilton.	
Flathead Creek.	Gallatin.	6,000	2	56.4°	84°	19	30°	42	1.91	.....	.....	0	0	0	10a	9a	11a	nw.	Alta Williams.	
Forsyth.	Rosebud.	2,514	6	.....	.....	.....	.....	.....	.....	.....	.....	0.47	0	14	8	19	4	.....	Wayne Wakefield.	
Fort Benton.	Chouteau.	2,630	62.5	-5.0	91	31	39	28	42	3.30	+ 2.37	0.60	0	9	16	8	7	sw.	Jere Sullivan.	
Fort Shaw.	Cascade.	3,500	23	62.8	-1.7	93	19	33	24	49	1.60	+ 0.70	0.57	0	7	16	6	9	sw.	U. S. Reclamation Service.
Fort W. H. Harrison.	Lewis and Clark.	4,004	8	.....	.....	.....	.....	.....	.....	.....	.....	0.44	0	8	7	16	8	.....	Post Hospital.	
Foster.	Yellowstone.	2	65.0	.....	99	13	33	28	51	0.90	.....	0.30	0	8	16	8	7	n.	E. K. Bowman.	
Garnett.	Fergus.	5,500	55.4	.....	85	18	27	27	44	3.91	.....	0.75	T.	12	9	8	14	w.	Thos. E. Scally.	
Glasgow.	Valley.	2,092	63.8	-3.7	96	13	32	28	44	1.83	+ 1.16	0	0	16	7	8	8	w.	W. M. Leonard.	
Glendive.	Dawson.	2,089	65.0	-5.7	96°	12	32	27	43°	1.83	+ 0.69	0.80	0	7	14	10	7	ne.	E. C. Leonard.	
Goldbutte.	Chouteau.	4	59.4	.....	87	19†	27	27	44	1.93	.....	0.47	0	14	8	19	4	.....	Joseph Berthelote.	
Graham.	Custer.	6	65.4°	.....	97°	31	32°	28	49	3.02	.....	0.76	0	12	17b	4b	2b	sw.	J. S. Rue.	
Grayling.	Gallatin.	6,700	51.23	.....	83°	18	19°	27	58°	0.56	.....	0.30	0	4	12d	10d	5d	sw.	P. Kerzenmacher.	
Great Falls.	Cascade.	3,350	20	62.2	-4.2	90	19	39	27	46	2.67	+ 1.66	0.73	0	11	13	11	7	n.	S. H. Bauman.
Half Moon Pass.	Fergus.	6,500	2	.....	.....	.....	.....	.....	.....	.....	.....	1.89	0	10	14	10	7	ne.	Thos. Stigen.	
Half Way House.	Broadwater.	6,000	2	.....	.....	.....	.....	.....	.....	.....	.....	0.76	0	10	8b	8b	13b	w.	Gordon Deans.	
Harlowton.	Meagher.	4,165	60.2	.....	85b	14†	29b	28	51b	1.77	.....	0	0	12	19	7	5	w.	Joseph Muir.	
Havre.	Chouteau.	2,505	62.7	-4.2	90	31	31	27	40	2.24	+ 0.98	0.74	0	12	19	7	5	e.	U. S. Weather Bureau.	
Helena.	Lewis and Clark.	4,110	61.8	-4.3	90	19	38	24	41	0.87	+ 0.18	0.38	0	9	12	11	8	sw.	Do.	
Hightwood.	Chouteau.	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.29	0	4	9	21	1	ne.	W. S. McCord.	
Huntley.	Yellowstone.	3,014	65.0	.....	97	13	34	28	47	0.90	.....	0.49	0	6	11	10	7	w.	U. S. Reclamation Service.	
Jones Canyon.	Gallatin.	6,800	2	.....	.....	.....	.....	.....	.....	.....	.....	1.63	0	6	11	10	7	w.	James McCune.	
Jordan.	Dawson.	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.04	0	12	18	4	9	s.	W. C. Henderson.	
Knobles Ranch.	Chouteau.	4,010	58.2	-4.1	87	17†	32	24†	42	4.15	+ 2.61	1.74	0	15	8	16	7	e.	J. S. Collier.	
Lewistown.	Fergus.	4,488	15	.....	.....	.....	.....	.....	.....	.....	.....	1.71	0	12	18	4	9	.....	E. Wilson.	
Livingston.	Park.	3,280	63.2	.....	91	19	35	27	41	2.98	.....	1.10	0	9	19	6	6	w.	U. S. Reclamation Service.	
Lonetree.	Chouteau.	2,240	62.9	.....	92	13†	33	23†	45	1.44	.....	0.53	0	7	12	16	3	se.	W. C. Henderson.	
Malta.	Medicine Lake.	1	61.8	.....	92a	13	30a	22	43a	2.11	.....	0.56	0	12	14a	11a	5a	se.	F. H. Knoble.	
Medicine Lake.	do.	2,903	2	.....	.....	.....	.....	.....	.....	.....	.....	1.90	0	6	6	5	3	se.	J. S. Collier.	
Melstone.	Fergus.	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.67	0	6	6	5	3	se.	E. J. Parkinson.	
Miles City.	Custer.	2,371	67.2	-4.3	98	13	38	28	42	1.59	+ 0.56	0.94	0	10	12	10	9	ne.	Leon B. Clark.	
Norris.	Madison.	4,845	62.4	.....	91	18†	33	11	49	0.90	.....	0.40	0	5	7	9	5	s.	U. S. Weather Bureau.	
Nye.	Sweet Grass.	3	54.0	.....	87	30	26	28	52	1.52	.....	0.33	0	14	13	7	11	e.	Madison River Power Co.	
Olsen Creek.	Jefferson.	6,345	3	.....	.....	.....	.....	.....	.....	.....	.....	1.35	0	10	15	12	4	w.	F. L. Bryant.	
Pipestone Pass.	do.	7,000	3	.....	.....	.....	.....	.....	.....	.....	.....	0.58	0	10	15	12	4	w.	Mrs. T. Kiermeyer.	
Poplar.	Valley.	2,020	65.2	-1.9	96	13	31	28	44	1.74	+ 0.71	0.59	0	5	21	6	4	n.	H. M. Cosier.	
Red Lodge.	Carbon.	5,548	56.8	-3.6	84	13†	32	24	40	1.54	+ 0.55	0.25	0	11	8	9	14	n.	I. A. Draper.	
Renova.	Jefferson.	4,383	60.0	-3.7	91	19	30	28	52	0.50	-0.19	0.16	0	6	19	8	4	ne.	F. B. Elmer.	
Ryegate.	Yellowstone.	3,640	62.8°	.....	95°	16†	30a	27	52°	1.83	.....	0.75	0	7	15a	2°	13°	e.	H. Scherlenberg.	
Seville.	Teton.	3,980	58.4	.....	90	11	31	27	48	1.29	.....	0.58	0	8	5	11	15	w.	U. S. Reclamation Service.	
Shelby.																				

TABLE 1.—Climatological data for August, 1911. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<b>North Dakota—Contd.</b>																				
Broncho.	Mercer.	4	61.3	87 <sup>a</sup>	17	34 <sup>a</sup>	29	48 <sup>a</sup>	4.77	.....	1.71	0	8	12	8	2	21	nw.	E. M. Walker.	
Buford.	Williams.	1,944	63.2	97	13	33	22	40	1.89	.....	0.95	0	8	6	17	8	ne.	J. A. Beisel.		
Dickinson.	Stark.	2,453	19	62.0	- 5.5	95	20	26	2.18	+ 0.33	0.55	0	8	12	3	20	8	se.	L. R. Waldron.	
Edgeley.	Lamoure.	1,468	10	64.2	- 2.7	90	14	36	4.10	+ 1.80	0.85	0	7	17	8	6	6	e.	O. A. Thompson.	
Epping.	Williams.	4	.....	.....	.....	.....	.....	.....	2.90	.....	1.00	0	7	17	8	6	6	se.	M. E. Uggem.	
Fullerton.	Dickey.	1,439	13	63.2	- 3.4	91	31	37	3.07	+ 0.07	0.96	0	11	16	9	6	nw.	F. O. Alin.		
Garrison.	McLean.	2	61.4	89	13	30	28	36	5.68	.....	2.18	0	9	6	16	9	6	se.	G. L. Robinson.	
Haley.	Bowman.	4	63.2	94	12 <sup>b</sup>	23	28	48	1.85	.....	0.55	0	9	18	6	7	se.	A. M. Oberchain Lawrence.		
Hettinger.	Adams.	2,253	5	63.0	98	20	23	28	2.07	.....	1.10	0	11	11	9	11	.....	W. R. Lanxon.		
Howard.	Divide.	2,275	5	61.2	97	13	28	22	2.12	.....	0.67	0	11	6	11	6	nw.	C. P. Ambsbaugh.		
Jamestown.	Stutsman.	1,390	24	60.7	- 6.1	86	13	37	6.72	+ 4.38	2.25	0	12	15	0	16	nw.	Thos. Pettigrew.		
Lamoine.	Kidder.	4	62.0	93 <sup>a</sup>	14	28 <sup>a</sup>	28	41 <sup>a</sup>	3.82	.....	1.99	0	7	17	8	6	nw.	E. V. Virgin.		
McHenry.	Foster.	1,509	10	60.2	85	13	34	28	3.94	.....	2.06	0	7	11	14	6	nw.	John Knox.		
Manfred.	Wells.	1,605	10	61.8	90	13	33	28	3.33	.....	1.35	0	9	8	17	6	nw.	P. B. Anderson.		
Marmarth.	Bowman.	4	.....	.....	.....	.....	.....	.....	1.62	.....	0.62	0	10	14	7	10	e.	S. P. Crane.		
Marstonmoor.	Stutsman.	4	56.6 <sup>d</sup>	82 <sup>b</sup>	13 <sup>b</sup>	23 <sup>b</sup>	27	35 <sup>b</sup>	3.72	.....	1.02	0	8	7	5	19	nw.	H. H. McCumber.		
Medora.	Billings.	2,225	15	62.1	- 6.2	98	13	28	50	1.28	- 0.30	0.52	0	5	15	8	8	e.	J. W. Hesser.	
Melville.	Foster.	1,509	14	64.2	- 2.6	95	19	33	4.76	+ 2.58	1.50	0	12	14	7	10	nw.	J. P. Kidder.		
Mott.	Hettinger.	5	62.6	98	20	28	28	52	1.94	.....	0.63	0	9	12	7	12	se.	O. H. Opland.		
Napoleon.	Logan.	1,955	20	63.0	- 1.6	95	14	29	2.19	- 0.26	1.07	0	10	11	6	14	s.	C. J. Hoof.		
New England.	Hettinger.	2,400	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. L. H. Holsey.		
New Rockford.	Eddy.	1,531	2	.....	.....	.....	.....	.....	5.67	.....	1.98	0	9	.....	.....	.....	.....	J. L. McGovern.		
New Salem.	Morton.	2,163	5	62.0	93	14	31	28	3.32	.....	1.28	0	11	11	12	8	nw.	J. Christiansen.		
Orange.	Adams.	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Goforth.		
Schafer.	McKenzie.	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	V. G. Morris.		
Steele.	Kidder.	1,857	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. C. Smith.		
Washburn.	McLean.	1,731	8	63.5	89	13 <sup>b</sup>	35	22	2.53	.....	1.35	0	6	6	19	6	s.	W. R. Peterson.		
Williston.	Williams.	1,875	32	62.6	- 5.3	96	13	32	2.27	+ 0.96	1.22	0	11	11	9	11	se.	U. S. Weather Bureau.		
<b>South Dakota.</b>																				
Aberdeen.	Brown.	1,300	21	65.0	- 4.0	99	15	35	5.32	+ 2.24	1.80	0	13	17	3	11	s.	D. G. Gallett.		
Academy.	Charles Mix.	12	69.6	- 3.1	102	15	39	28	2.67	- 0.41	1.70	0	8	14	9	8	se.	I. T. Lothrop.		
Alexandria.	Hanson.	1,352	22	.....	.....	.....	.....	.....	2.50	- 0.20	0.74	0	5	16	10	5	se.	Albert Hill.		
Ardmore.	Fall River.	3,557	2	.....	.....	.....	.....	.....	3.32	.....	1.00	0	5	9	13	9	.....	C. B. & Q. R. R.		
Armour.	Douglas.	1,521	15	70.6	- 1.5	103	15 <sup>b</sup>	37	2.43	- 0.27	1.23	0	6	12	12	7	.....	T. J. Markey.		
Belle Fourche.	Butte.	3,000	3	64.8	98	15	31	28	1.99	.....	0.75	0	6	7	15	9	se.	U. S. Reclamation Service.		
Brookings.	Brookings.	1,636	22	66.3	- 1.6	91	14 <sup>b</sup>	34	3.81	+ 1.06	1.22	0	10	6	16	9	se.	Experiment station.		
Camp Crook.	Harding.	3,000	19	63.6	- 5.3	95	12 <sup>b</sup>	27	2.88	+ 1.59	1.28	0	8	15	11	5	nw.	U. S. Forest Service.		
Canton.	Lincoln.	1,248	16	.....	.....	.....	.....	.....	3.12	.....	0.92	0	10	4	9	18	w.	John H. Holsey.		
Cascade Springs.	Fall River.	3,422	3	65.9	98	15	39	25	4.69	.....	1.22	0	8	18	4	9	w.	Fred Norenberg.		
Castlewood.	Hamlin.	1,685	5	65.0	92	14 <sup>b</sup>	34	28	3.26	.....	1.44	0	11	6	6	19	s.	M. N. Bradley.		
Centerville.	Turner.	1,229	14	68.8	- 2.9	96	14	38	4.09	+ 0.81	1.31	0	9	5	21	5	se.	Frank Williams.		
Clark.	Clark.	1,779	17	65.6	- 3.1	100	15	37	2.7	40	1.76	- 1.09	0	7	13	4	w.	O. H. La Craft.		
Cottonwood.	Stanley.	2,414	3	68.8	.....	103	15	36	2.8	43	2.41	.....	0.86	0	8	15	2	se.	Experiment station.	
Custer.	Custer.	5,316	5	.....	.....	.....	.....	.....	3.12	.....	0.92	0	10	4	9	18	w.	R. P. Ames.		
Daviston.	Perkins.	2	65.2	96	20	27	26	41	4.19	.....	1.70	0	10	11	11	9	se.	G. G. Davis.		
Deadwood.	Lawrence.	4,535	21	61.5	94	15 <sup>b</sup>	28	28	3.55	.....	0.90	0	10	19	3	9	.....	R. E. Grimshaw.		
Deerfield.	Pennington.	6,000	2	.....	.....	.....	.....	.....	2.55	.....	0.92	0	11	14	10	7	w.	Frank E. Miller.		
De Smet.	Kingsbury.	1,726	18	69.9	+ 0.6	97 <sup>b</sup>	15	40 <sup>b</sup>	2.25	- 0.37	1.00	0	4	21	7	3	nw.	J. O. Purinton.		
Dowling.	Stanley.	2,250	2	68.0	103	20	33	28	1.80	.....	0.60	0	7	13	10	8	se.	M. P. Dowling.		
Dumont.	Lawrence.	6,195	2	.....	.....	.....	.....	.....	3.63	.....	0.70	0	13	14	11	6	sw.	A. B. Wood.		
Eales.	Potter.	.....	.....	.....	.....	.....	.....	.....	2.18	.....	0.84	0	9	13	13	5	se.	A. H. Peterson.		
Edison.	Perkins.	67.2	101	14 <sup>b</sup>	35	28	42	1.67	.....	0.55	0	8	18	4	9	ne.	J. C. Stoner.			
Elk Mountain.	Custer.	4,700	2	.....	.....	.....	.....	.....	4.33	.....	1.15	0	10	14	7	10	se.	James E. Blaine.		
Ellington.	Perkins.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. C. Ellington.		
Englewood.	Lawrence.	5,723	2	.....	.....	.....	.....	.....	3.70	.....	0.80	0	13	8	15	8	sw.	T. J. Cummings.		
Eureka.	McPherson.	1,884	2	66.7	96	14	32	28	3.57	.....	1.15	0	10	5	25	1	se.	Experiment station.		
Fairfax.	Gregory.	7	69.8 <sup>d</sup>	102 <sup>b</sup>	15	34 <sup>b</sup>	28	43 <sup>b</sup>	2.83	.....	0.70	0	10	9	8	se.	U. G. Stevenson.			
Faulkton.	Faulk.	1,595	16	67.8	- 1.2	102	15	35	3.63	+ 1.20	1.44	0	8	14	9	8	se.	Miss Beth Talcott.		
Flandreau.	Moody.	1,565	21	66.3	- 2.4	91	14 <sup>b</sup>	34	3.19	- 0.12	1.02	0	7	4	14	13	s.	W. A. Harris.		
Forestburg.	Sanborn.	1,231	19	69.2	- 1.3	104	15	33	2.8	+ 2.03	1.65	0	9	18	10	3	se.	S. S. Judy.		
Frederick.	Brown.	1,371	3	69.3	- 3.6	105	15	34	2.8	49	3.19	+ 0.12	1.24	0	8	9	4	sw.	J. E. Jeffers.	
Gann Valley.	Buffalo.	13	69.3	- 3.6	105	15	34	28	3.19	+ 0.12	1.24	0	10	8	18	4	sw.	V. P. Drips.		
Greenmont.	Lawrence.	6,430	2	71.8	- 2.5	104	15	38	28	4.39	.....	1.00	0	15	8	17	6	w.	H. C. Hoffbuh.	
Greenwood.	Charles Mix.	6,600	2	.....	.....	.....	.....	.....	2.30	- 0.58	0.69	0	6	18	9	4	e.	T. C. Williamson.		
Hardy Ranger Station.	Lawrence.	6,600	2	71.8	- 2.5	104	15	38	2.30	- 0.58	0.69	0	10	8	17	6	sw.	Mrs. Ennie A. Gundlach.		
Harveys Ranch.	.....	.....	.....	.....	.....	.....	.....	.....	3.10	.....	1.01	0	7	11	13	7	w.	Jerome Harvey.		
Hermosa.	Custer.	3,278	5	67.2	- 3.7	103	16	32	2.27	.....	1.00	0	7	14	11	6	se.	S. M. Booth.		
Highborn.	Hyde.	1,890	15	66.8	- 4.7	103	15	31	2.8	46	2.52	+ 0.14	1.10	0	6	14	10	7	se.	Experiment station.
Hopewell.	Stanley.	1	67.9 <sup>d</sup>	106	15	35 <sup>b</sup>	28	42 <sup>b</sup>	2.75	.....	1.30	0	7							

TABLE 1.—*Climatological data for August, 1911. District No. 6—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>South Dakota—Contd.</i>																				
Pierre.....	Hughes.....	1,572	19	69.4	— 3.7	104	15	39	28	40	2.20	+ 0.19	0.92	0	7	8	14	9	e.	
Plankinton.....	Aurora.....	1,528	17	63.9	— 9	94	14	31	28	48	2.42	— 0.11	1.16	0	12	10	16	5	se.	
Pollock.....	Campbell.....	5	23	65.9	— 3.5	97	15	36	28	37	1.25	— 0.10	1.25	0	12	10	16	5	se.	
Rapid City.....	Pennington.....	3,251	23	65.6	— 2.7	102	15	35	28	44	2.01	— 1.26	1.33	0	9	15	7	9	se.	
Redfield.....	Spink.....	1,295	13	66.7	— 2.7	102	15	35	28	44	2.24	— 1.26	0.69	0	12	10	19	10	sw.	
Rochford.....	Pennington.....	5,228	1	66.6	— 5.1	97 <sup>b</sup>	14	30 <sup>b</sup>	28	40 <sup>b</sup>	3.52	+ 1.70	1.37	0	11	11	13	7	se.	
Rosebud.....	Todd.....	2,600	17	66.6	— 5.1	97 <sup>b</sup>	14	30 <sup>b</sup>	28	40 <sup>b</sup>	3.52	+ 1.70	2.20	0	11	11	10	10	se.	
Roslyn.....	Day.....	5	64.0	65.6	— 95	95	15	35	28	36	6.09	— 0.53	0.90	0	12	10	16	5	se.	
Selby.....	Walworth.....	3	66.0	92 <sup>a</sup>	— 15	33 <sup>a</sup>	28	37	34	37	1.66	— 0.21	0.96	0	8	12	13	6	nw.	
Sioux Falls.....	Minnehaha.....	1,400	20	68.4	— 1.9	94	12 <sup>f</sup>	38	28	39	8.07	+ 5.02	2.47	0	16	6	13	12	s.	
Sorum.....	Harding.....	63.9	— 98	31	28	28	42	42	1.73	0.57	0	11	19	3	9	se.				
Spearfish.....	Lawrence.....	3,647	21	67.0	— 102	15	33	28	43	4.29	— 0.53	2.62	0	4	10	8	13	se.		
Stephan.....	Hyde.....	1,840	7	67.0	— 102	15	33	28	43	4.29	— 0.53	0.60	0	9	—	—	—	Rev. A. Mattingly.		
Tama.....	Meade.....	2	68.8	101	20	34	28	39	1.93	— 0.53	1.19	0	10	12	15	4	se.			
Tyndall.....	Bonhomme.....	1,418	14	70.1	— 1.9	100	15	37	28	33	3.09	— 0.53	0.90	0	5	16	10	5	nw.	
Vale.....	Butte.....	2,765	3	66.8	98 <sup>a</sup>	15	35 <sup>a</sup>	28	45 <sup>a</sup>	2.29	— 0.21	0.96	0	9	18	4	4	s.		
Vermillion.....	Clay.....	1,222	10	71.5	— 1.3	96	15	40	28	35	3.19	— 0.21	0.77	0	12	10	9	12	nw.	
Waters Ranch.....	Lawrence.....	4,000	1	64.6	— 2.5	94	15	34	28	45	2.82	— 0.57	1.30	0	12	12	12	7	s.	
Watertown.....	Codington.....	1,735	17	64.6	— 2.5	94	15	34	28	45	1.30	— 0.57	0.90	0	10	20	8	3	se.	
Wentworth.....	Lake.....	18	66.7	92	14	35	28	38	5.00	+ 2.12	1.90	0	10	20	8	3	se.			
Wessington Springs.....	Jerauld.....	1,410	11	69.7	— 0.7	102	15	38	28	37	2.10	— 0.93	0	8	5	20	6	s.		
White Lake.....	Aurora.....	1,646	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mrs. G. A. Rogers.		
Winner.....	Tripp.....	2,500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A. L. Rawson,		
Yankton.....	Yankton.....	1,234	37	69.6	— 3.2	99	15	42	28	32	4.03	+ 0.91	1.39	0	9	4	20	7	U. S. Weather Bureau.	
<i>Minnesota.</i>																				
Pipestone.....	Pipestone.....	1,710	11	64.9	— 3.8	88	15 <sup>f</sup>	33	28	34	3.55	— 0.60	1.22	0	10	9	19	3	se.	
<i>Colorado.</i>																				
Akron.....	Washington.....	4,650	9	—	—	—	—	—	—	—	0.76	—	0.44	0	3	—	—	—	Ira M. Barnhouse.	
Albion Lake.....	Boulder.....	—	—	—	—	—	—	—	—	—	2.12	—	0.63	0	10	14	16	1	Fred R. Dungan.	
Alma.....	Park.....	10,238	14	69.4	— 87	42	25	39	0.97	—	—	—	0.52	0	6	11	17	3	Anna B. Osborne.	
Arriba (near).....	Lincoln.....	5,238	5	69.4	— 96	87	42	39	0.97	—	—	—	0.52	0	11	8	19	4	C. A. Creel.	
Auldhurst.....	Teller.....	8,500	1	—	—	—	—	—	—	—	2.01	—	—	—	—	—	—	—	Mrs. Alice A. Auld.	
Bennet (near).....	Arapahoe.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	J. F. Egelhoff.	
Boulder.....	Boulder.....	5,347	15	69.3	— 1.3	98	8	42	28	41	1.24	— 0.25	0.74	0	9	15	13	3	O. H. Wangelin.	
Burlington.....	Kit Carson.....	4,160	8	72.2	— 99	8	42	28	42	3.56	—	1.07	0	11	6	22	3	se.		
Cassells.....	Park.....	8,445	1	—	—	—	—	—	—	—	—	—	0.43	0	7	18	12	1	w.	
Castle Rock.....	Douglas.....	6,220	19	64.9	— 1.8	95	8	36	3	49	1.73	— 0.42	0.57	0	6	9	7	5	s.	
Cheeseman.....	Jefferson.....	6,890	8	65.1	— 8	89	8	41	29	42	2.13	—	0.50	0	6	15	14	2	w.	
Cheyenne Wells.....	Cheyenne.....	4,279	17	73.3	— 0.5	101	20	46	28	40	2.36	— 0.02	1.30	0	6	20	7	4	s.	
Cope.....	Washington.....	14	65.5	77.4	— 7.7	94	14	42	25	36	6.31	—	1.60	0	9	13	14	4	s.	
Corona.....	Grand.....	11,660	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	U. S. Weather Bureau.	
Denver.....	Denver.....	5,272	39	70.3	— 0.1	97	8	45	25	39	1.08	— 0.26	0.67	0	6	13	18	0	s.	
Edgewater.....	Jefferson.....	5,450	3	69.0	— 99	8	42	3	46	1.73	—	1.00	0	8	20	11	0	se.		
Estes Park Fish Hatch.....	Larimer.....	8,000	2	—	—	—	—	—	—	—	—	—	0.55	0	11	0	17	14	w.	
Fort Collins.....	Weld.....	4,985	29	66.2	— 2.0	95	8	37	26	49	0.59	— 0.62	0.54	0	4	10	20	1	se.	
Fort Lupton.....	Weld.....	4,907	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Do.	
Fort Morgan.....	Morgan.....	4,319	13	70.4	— 1.9	103	87	37	25	56	1.21	— 0.54	0.60	0	3	10	18	3	se.	
Frances.....	Boulder.....	9,300	6	60.2	— 86	8	33	37	36	2.65	—	1.20	0	14	—	—	—	Dr. N. P. Levin.		
Frys Ranch.....	Phillips.....	3,745	15	—	—	—	—	—	—	—	2.00	— 0.21	0.78	0	9	13	15	3	se.	
Georgetown.....	Larimer.....	7,500	1	59.0	— 87	8	32	25	47	1.95	—	0.75	0	9	16	14	1	w.		
Greely.....	Clear Creek.....	8,550	9	—	—	—	—	—	—	—	—	0.41	0	11	4	22	5	s.		
Grover.....	Weld.....	4,649	2	69.1	— 98	8	40	26	50	0.86	— 0.10	0.54	0	4	21	10	0	e.		
Hartsel.....	Park.....	5,076	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Emily Kleinknecht.		
Hawthorne.....	Boulder.....	7,670	2	—	—	—	—	—	—	—	1.38	—	0.44	0	8	12	13	16	se.	
Holyoke (near).....	Phillips.....	6,000	2	—	—	—	—	—	—	—	1.20	—	0.50	0	6	17	14	0	se.	
Idaho Springs.....	Clear Creek.....	7,534	11	62.6	— 88	8	37	27	40	1.80	— 0.07	0.66	0	9	16	14	1	w.		
Keota.....	Weld.....	4,966	—	—	—	—	—	—	—	—	0.62	—	0.41	0	3	17	9	5	e.	
Laporie.....	Larimer.....	5,055	20	—	—	—	—	—	—	—	0.50	—	0.83	0	2	—	—	—	se.	
Leroy (near).....	Logan.....	4,380	22	68.0	— 0.6	98	8	39	24 <sup>f</sup>	50	0.76	— 0.42	0.37	0	8	18	13	0	w.	
Longmont.....	Boulder.....	4,980	10	68.0	— 0.6	98	8	39	25	40	0.76	— 0.37	0.37	0	8	18	13	0	Great Western Sugar Co.	
Longs Peak (near).....	Larimer.....	8,600	16	54.4	— 0.5	79	8	25	3	44	1.75	— 0.37	0.63	0	9	4	25	2	Enos A. Mills.	
Lula Pass.....	do.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A. M. McCahan.		
Moraine Park.....	do.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	J. D. Stead.		
Platte Canyon.....	Jefferson.....	7,775	21	—	—	—	—	—	—	—	1.60	+ 0.08	0.60	0	6	11	16	4	w.	
St. Cloud.....	Jefferson.....	5,492	12	—	—	—	—	—	—	—	2.41	— 0.49	1.61	0	5	16	15	4	e.	
Sedgwick.....	Sedgwick.....	7,750	8	—	—	—	—	—	—	—	0.85	—	0.80	0	12	14	17	0	ne.	
Sill Mine.....	Clear Creek.....	3,573	3	67.4	— 99	14	40	14	49 <sup>f</sup>	3.21	—	3.11	— 0.31	0.98	0	7	8	15	8	sw.
Spicer (near).....</																				

TABLE I.—Climatological data for August, 1911. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unshaded.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
Nebraska—Continued.																					
Blair.	Washington.	1,122	16	74.2	+ 0.7	101	15	44	28	38	1.84	- 2.09	0.89	0	4	19	8	4	sw.	D. C. VanDeusen.	
Bloomfield.	Knox.	4	69.5	.....	98	15	34	28	34	2.27	0.52	0	0	8	7	23	7	1	se.	Dr. L. C. Bleick.	
Bradshaw.	York.	1,715	14	.....	.....	.....	.....	.....	.....	.....	8.64	+ 3.26	4.34	0	7	21	8	2	s.	E. C. Roggy.	
Bridgeport.	Morrill.	3,658	15	67.8	- 3.9	99	14	36	25	50 <sup>b</sup>	1.47	- 0.12	0.73	0	4	15	13	3	se.	R. H. Willis.	
Broken Bow.	Custer.	2,477	16	68.0	- 3.8	97	15	37	28	43	3.74	+ 0.23	1.71	0	9	16	2	13	nw.	C., B. & Q. R. R.	
Burge.	Cherry.	2,674	5	68.2	.....	98	14	33	28	46	2.95	.....	0.75	0	7	11	14	6	s.	H. A. Davis.	
Cairo.	Hall.	1,951	3	.....	.....	.....	.....	.....	.....	.....	6.05	.....	1.60	0	7	10	10	10	.....	Elliott Harrison.	
Callaway.	Custer.	2,555	17	69.0	- 2.9	95	8†	41	25†	48	4.48	+ 1.14	1.05	0	10	11	10	10	s.	J. H. Evans.	
Cambridge.	Furnas.	2,258	5	71.8	.....	99	15	42	28	43 <sup>a</sup>	4.89	.....	2.05	0	10	14	9	8	e.	Chas. Jensen.	
Canton (near).	Sioux.	3	67.8	.....	100	15	29	24	57 <sup>1</sup>	.....	.....	.....	0	0	6	15	8	8	se.	A. E. Hann.	
Columbus.	Platte.	1,442	19	71.4	- 1.2	100	15	42	28	39	4.05	+ 0.40	2.87	0	6	15	8	8	se.	A. L. Rush.	
Cozad.	Dawson.	2,496	3	.....	.....	.....	.....	.....	.....	.....	4.89	.....	1.90	0	8	14	14	3	s.	A. A. Lutkin.	
Creighton.	Knox.	1,600	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	8	11	9	s.	C. L. Cherry.	
Crete.	Saline.	1,368	28	75.2	+ 1.7	104	15	48	14†	38	3.71	+ 0.13	1.47	0	7	14	6	11	s.	Doane College.	
Culbertson.	Hitchcock.	2,565	25	71.0	.....	100	15	36	28	44 <sup>b</sup>	3.29	+ 0.58	1.21	0	11	14	7	10	se.	J. H. Corrick.	
Curtis.	Frontier.	2,553	14	71.4	- 3.5	94	15†	42	25†	36	6.28	+ 3.19	2.00	0	13	11	12	8	ne.	Dr. S. R. Razee.	
David City.	Butler.	1,619	23	73.3	+ 1.7	101	15	42	28	34	2.89	- 0.73	1.95	0	6	7	17	7	se.	S. Clingman.	
Dawson.	Richardson.	945	17	75.5	- 1.1	103	10	45	29	35	4.02	+ 0.34	1.40	0	5	23	4	4	nw.	Mrs. E. I. Atkinson.	
Dubois.	Pawnee.	1,074	6	.....	.....	.....	.....	.....	.....	.....	5.68	.....	2.03	0	8	24	4	3	se.	O. M. Backus.	
Dumas.	Wheeler.	3	.....	.....	.....	.....	.....	.....	.....	.....	2.44	.....	0.98	0	11	11	11	9	s.	J. M. Kenney.	
Ellis.	Gage.	1,430	6	.....	.....	.....	.....	.....	.....	.....	4.24	.....	1.67	0	7	10	10	10	.....	D. J. Wood.	
Elm Creek.	Buffalo.	2,268	4	.....	.....	.....	.....	.....	.....	.....	5.86	.....	2.07	0	9	9	9	9	.....	E. L. Sutton.	
Elsie.	Perkins.	3,382	3	.....	.....	.....	.....	.....	.....	.....	1.81	.....	0.48	0	11	11	11	11	.....	J. F. Brittain.	
Ericson.	Wheeler.	2,029	19	.....	.....	.....	.....	.....	.....	.....	3.68	+ 1.16	1.04	0	11	11	11	11	.....	G. H. Benson.	
Ewing.	Holt.	1,888	20	70.6	.....	106	15	34	28	53	2.93	+ 0.05	1.14	0	11	9	15	14	2	ne.	W. F. Crabb.
Fairbury.	Jefferson.	1,316	37	75.2	- 0.5	106	15	46	28†	39	6.29	+ 2.07	2.29	0	6	20	3	8	n.	C. B. & Q. R. R.	
Fairmont.	Fillmore.	1,641	18	71.2	- 2.2	102	15	42	28	40	3.79	+ 0.19	1.55	0	6	15	16	0	.....	Post surgeon.	
Fort Robinson.	Dawes.	3,764	29	63.2	- 6.9	96	15	35	25	48	2.68	+ 1.11	1.44	0	8	18	11	2	w.	A. R. Peck.	
Franklin.	Franklin.	1,820	17	73.2	- 2.2	101	9	40	28	46	4.08	+ 5.02	4.04	0	11	19	8	4	se.	Earnest Hahn.	
Fremont.	Dodge.	1,203	32	73.6	+ 0.7	102	15†	42	28	44	1.34	- 2.56	0.77	0	4	12	16	3	se.	Dr. W. F. Johnson.	
Fullerton.	Nance.	1,629	9	72.0	.....	104	15	40	28	45	2.12	.....	1.10	0	6	15	16	0	.....	F. M. Flory.	
Geneva.	Fillmore.	1,633	21	73.7	- 0.8	104	15	43	28	41	3.83	+ 0.46	2.05	0	6	22	5	4	se.	F. W. Parsons.	
Genoa.	Nance.	1,584	36	72.2	- 1.0	102	15	43	28	43	2.54	- 0.42	1.28	0	8	17	9	5	se.	G. F. Williams.	
Gordon.	Cherry.	3,550	10	65.8 <sup>f</sup>	.....	97	14	34	28	50 <sup>b</sup>	3.58	+ 1.74	1.14	0	9	9	9	9	.....	E. H. Stoll.	
Gosper.	Gosper.	10	.....	.....	.....	.....	.....	.....	.....	.....	6.21	+ 2.72	2.05	0	10	8	18	5	se.	Dr. W. J. Bartholomew.	
Gothenburg.	Dawson.	2,557	17	70.2	- 3.0	98	12†	42	25	40	3.93	+ 0.60	0.93	0	10	15	3	13	se.	E. A. Barnes.	
Grand Island.	Hall.	1,860	19	71.8	- 2.0	100	15	42	28	40	6.84	+ 2.88	1.83	0	11	12	11	8	s.	Cyrus Carver.	
Grant.	Perkins.	3,405	8	70.6	.....	103	14†	37	28	48	1.64	.....	0.51	0	8	16	6	6	se.	W. E. Morgan.	
Greeley.	Greeley.	2,021	17	70.1	.....	100	15	39	28	40	1.63	- 1.16	0.60	0	9	9	22	0	se.	J. S. Marsh.	
Guiderock.	Webster.	1,646	11	.....	.....	.....	.....	.....	.....	.....	6.27	+ 2.88	4.25	0	8	12	14	5	ne.	U. S. Forest Service.	
Halsey.	Thomas.	2,695	9	70.4	.....	99	15	38	25	46	2.39	.....	1.28	0	6	16	6	9	ne.	D. E. Ewing.	
Hartington.	Cedar.	1,309	21	69.4	- 1.6	98	15	40	27†	36	4.58	+ 0.79	1.45	0	6	12	8	11	nw.	Dr. J. T. Flemming.	
Harvard.	Clay.	1,812	22	71.2	- 2.8	100	15	44	28	39	6.15	+ 2.49	1.80	0	10	19	12	0	.....	C. B. & Q. R. R.	
Hastings.	Adams.	1,932	22	71.8	.....	100	15	42	28	40	6.84	+ 2.88	1.83	0	11	12	11	8	se.	Dr. W. J. Bartholomew.	
Hayes Center.	Hayes.	18	71.8	.....	100	15	42	28	47	4.45	+ 1.17	1.25	0	13	15	3	3	se.	E. A. Barnes.		
Hay Spring.	Sheridan.	3,821	25	66.4	- 2.8	99	15	36	25	46	3.57	+ 1.54	1.35	0	9	11	13	7	s.	C. A. Ready.	
Hebron.	Thayer.	1,458	26	73.2	- 1.4	99	9†	45	28†	38	6.13	+ 2.61	1.93	0	9	9	9	9	.....	A. Kadlecik.	
Hemingford.	Boxbutte.	4,256	2	.....	.....	.....	.....	.....	.....	.....	0.92	.....	0.92	0	7	12	13	13	.....	Dr. C. M. Easton.	
Hendley.	Furnas.	2,231	7	67.8	.....	100	15	30	25	53	1.98	.....	2.50	0	10	8	7	7	se.	A. T. Jones.	
Hillside.	McPherson.	3,484	2	71.3	.....	100	15	44	28	39	6.19	+ 2.93	2.75	0	10	17	6	8	se.	Mrs. M. R. Lloyd.	
Holdredge.	Phelps.	2,324	20	71.3	- 3.6	98	15†	44	29	39	6.19	+ 2.93	2.75	0	15	16	6	6	se.	C. B. & Q. R. R.	
Hooper.	Dodge.	1,228	14	72.4	- 1.0	100	14†	35	28	42	1.98	- 2.19	1.03	0	5	14	6	11	se.	Dr. W. H. Heine.	
Hull (near).	Baumer.	1	.....	.....	.....	.....	.....	.....	.....	.....	1.30	.....	0.81	0	8	17	3	11	s.	Mrs. W. P. Miller.	
Imperial.	Chase.	3,278	22	71.4	- 2.2	97	14†	40	25	45	3.45	+ 0.70	1.45	0	13	9	13	9	se.	Robt. Malcom.	
Kearney.	Buffalo.	2,146	24	71.0	- 3.2	98	15†	43	28	37	5.38	+ 2.25	1.58	0	9	12	15	4	e.	City engineer.	
Kimball.	Kimball.	4,697	24	69.8	- 0.2	99	8	38	24	47	0.80	- 0.59	0.35	0	7	13	3	3	s.	F. J. Bellows.	
Kirkwood.	Rock.	16	68.8	- 2.7	101	15	33	28	46	2.86	+ 0.48	1.25	0	6	11	13	7	nw.	Mrs. C. Arter.		
Kowanda.	Deuell.	3	.....	.....	.....	.....	.....	.....	.....	.....	2.50	.....	0.97	0	9	9	9	9	.....	Geo. W. Hulse.	
Lamar.	Chase.	1	.....	.....	.....	.....	.....	.....	.....	.....	1.25	.....	0	9	20	3	8	se.	R. L. McGaughey.		
Lexington.	Dawson.	2,385	22	70.8	- 1.4	100	15	43	25	40	4.79	+ 1.64	1.46	0	10	20	0	11	se.	Robt. Chadwick.	
Lincoln.	Lancaster.	1,189	32	74.8	+ 0.5	103	15	45	28	34	4.32	+ 0.61	2.42	0	11	15	10	6	se.	U. S. Weather Bureau.	
Lodgepole.	Cheyenne.	3,820	13	70.4	+ 0.1	100	14	38	25	50	1.14	- 0.70	0.36	0	7	12	14	5	se.	R. T. Kidney.	
Loup.	Sherman.	2,067	17	69.1	- 3.6	97	15	36	28	41	2.06	- 1.66	0.56	0	3	17	14	1	se.	Harriet Hayhurst.	
Loyal.	Custer.	2,257	11	.....	.....	.....	.....	.....	.....	.....	3.76	.....	1.35	0	5	16	14	1	s.	C. H. Cass.	
McCook.	Red Willow.	2,506	17	72.8	- 3.8	99	15†	39	28	45	4.34	+ 1.69									

TABLE 1.—*Climatological data for August, 1911. District No. 6—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<b>Nebraska—Continued.</b>																				
Seward.	Seward.	1,435	21	73.0	-1.9	103	14	40	27	3.98	-0.22	1.25	0	8	9	21	1	sw.	C., B. & Q. R. R.	
Sidney.	Cheyenne.	4,090	19	68.2	-3.3	98	14	35	28	43	3.22	+0.42	1.11	0	8	23	8	0	se.	John P. Fischer.
Springview.	Keyapaha.	20	68.1	-3.7	98	15	39	28	39	3.31	-0.03	1.87	0	8	10	14	7	nw.	C. L. Phelps.	
Stanton.	Hitchcock.	1,472	20	68.1	-16	16				2.55	-0.05	0.85	0	7	5	17	12	2	nw.	Alfred Pont.
Stratton.	Nuckolls.	2,864	16							3.55	+0.49	0.90	0	6						Miss Stella Vennum.
Superior.	Syracuse.	1,574	27							3.41	-0.34	1.20	0	7	19	10	2	se.	F. V. Bishop.	
Otoe.	Table-rock.	1,059	20	74.5	-0.3	106	16	43	28†	45	3.41	+0.27	2.45	0	6	21	10	0	se.	W. N. Hunter.
Pawnee.	Tecumseh.	1,023	23	75.0	+0.3	105	15	41	29	52b	2.32	-1.42	1.45	0	3				se.	E. D. Howe.
Johnson.	Burt.	1,113	34	71.9	-1.2	101	14	42	28	40	5.00	+1.03	1.60	0	6	22	0	9	nw.	F. B. Thurber.
Tobias.	Saline.	1,597																		Dr. A. D. Nesbit.
University Farm §.	Lancaster.	26	74.7	+0.3	103	15	42	28	40	2.87	-1.02	1.08	0	8	17	11	3		Frank Ainsworth.	
Valentine.	Cherry.	2,613	23	67.6	-3.7	100	15	36	28	41	3.57	+0.75	0.87	0	14	11	17	3	s.	S. W. Perin.
Wahoo.	Saunders.	1,187	9							1.41		0.72	0	4	22	8	1		U. S. Weather Bureau.	
Wakefield.	Dixon.	1,387	17	70.2	-1.6	96	15	37	28	43	2.95	-0.71	1.40	0	10	20	7	4	s.	W. T. Mauck.
Walhill.	Thurston.	9	69.6	.....	97	15	40a	28	41j	4.52		2.00		0	7					I. H. Weaver.
Watertown.	Buffalo.	2,299	6							4.10		1.02	0	8	11	20	0		A. P. Coleman.	
Wauneta.	Chase.	13								3.07	-0.17	1.05	0	9					R. E. Swift.	
Weeping Water.	Cass.	1,080	34	75.5	.....	109	10†	40	29	48	1.95	-2.05	0.96	0	8	25	2	4	se.	C. D. Fuller.
Westpoint.	Cuming.	1,313	23	73.5	-0.2	101	14	42	28	44	3.28	-1.49	1.28	0	4	19	9	3	ne.	S. W. Orton.
Wisner.	do.	1,380	16							3.92	+0.40	1.69		0	7	20	8	3		J. C. Elliott.
York.	York.	1,633	21	73.4	-2.0	104	15	41	28	43	5.41	+1.84	2.85	0	7	20	9	2	se.	F. C. Evans.
<b>Iowa.</b>																				A. T. Glauque.
Afton.	Union.	1,212	17	73.4	-0.2	100	10	40	29	33	2.33	-2.10	0.94	0	6	17	12	2	sw.	Hon. N. W. Rowell.
Allerton.	Wayne.	9	76.24	.....	101d	10	53a	24	33	2.10		1.82	0	5	15	10	9	2		Mrs. Geo. Shriver.
Alton.	Sioux.	1,305	6	69.6	.....	96	15	45	28	36	4.11		0.97	0	13	10	19	2		W. S. Slagle.
Atlantic.	Cass.	1,164	20	73.4	+2.1	101	10	45	28†	40	3.85	+0.47	1.60	0	8	14	9	8	ne.	Thos. H. Whitney.
Audubon.	Audubon.	1,301	17	72.4	+0.6	100	16	45	28	38	1.83	-1.39	0.62	0	6	13	10	8	se.	Geo. E. Kellogg.
Bedford.	Taylor.	11	75.4	+1.5	107	15	46	29	46	1.86	-3.20	1.08	0	5	23	6	2	s.	E. E. Healy.	
Centerville.	Appanoose.	1	75.6	.....	102	10†	45	29	43	1.37		1.15	0	2	24	7	0		Gordon Peacock, jr.	
Charlton.	Lucas.	1,042	16	74.2	+1.1	103	10	43	29	45	0.44	-4.56	2.20	0	3	26	0	5	se.	C. C. Burr.
Clarinda.	Page.	1,009	21	74.5	+0.3	106	10	45	29	43	2.51	-1.52	1.31	0	6	22	4	5	s.	A. S. Van Sandt.
Corning.	Adams.	1,117	19	73.7	+1.2	102	10†	45	29	37	2.49	-1.72	1.18	0	5	15	14	2	sw.	Jerome Smith.
Corydon.	Wayne.	1,101	18	78.2	+4.6	105	16	52	23	38	3.12	-3.00	1.05	0	4	17	12	2	s.	J. J. C. Bowen.
Council Bluffs.	Pottawattamie.	1	74.0	.....	104	10†	39	28	43	1.47		0.67	0	6	15	6	10	se.	B. W. Crossley.	
Creston.	Union.	1,312	6	73.0	.....	103	10	46	29	42	1.54		0.66	0	8	19	3	9	n.	O. J. Colby.
Cumberland.	Cass.	12								3.93	-0.05	1.41	0	5	26	4	1		J. H. Reppert.	
Denison.	Crawford.	1,180	17	70.6	-1.3	97	15	44	28	40†	2.82	+0.06	1.27	0	7					W. C. Van Ness.
Elliott.	Montgomery.	6	73.2	.....	102	16	42	28	41	2.05		1.00	0	5	19	12	0		Henry Barnes.	
Greenfield.	Adair.	19	73.0	+0.6	100	10†	44	28	34	4.33	+1.39	2.25	0	8	13	17	1	s.	R. B. Oldham.	
Harlan.	Shelby.	1,182	12	71.8	-0.4	100	16	42	28	41	2.54	-1.68	1.03	0	7	11	17	3	s.	C. A. Reynolds.
Inwood.	Lyon.	1,474	7	69.2	.....	93	15†	36	28	34	3.73		0.91	0	13	22	8	1		F. B. Hanson.
Lamoni.	Decatur.	4	74.3	.....	100	16	46	29	43	4.02		0.83	0	5	22	3	6	se.	T. J. Fitzpatrick.	
Larrabee.	Cherokee.	1,266	21	70.0	-1.2	97	5	34	28	42	3.39	-0.09	1.20	0	9	17	6	8	sw.	Alonzo Pruitt.
Le Mars.	Plymouth.	1,224	15	68.9	-2.6	89	15	42	28	30	3.46	+0.58	0.87	0	10	9	19	3	se.	G. A. C. Clarke.
Lenox.	Taylor.	1,250	16	74.6	+1.7	101	10†	47	29	36	2.01	-2.11	1.15	0	5	23	6	2	s.	J. L. Hurley.
Leon.	Decatur.	1,120	9	78.4	.....	103	10	52c	27	43	1.47		0.93	0	4					Morris Gardner.
Little Sioux.	Harrison.	6	72.6	.....	101	15	37	28	37	4.20		1.55	0	6	19	6	6	se.	Geo. H. Gibson.	
Logan.	Ringgold.	928	44	73.6	+0.9	103	15	44	28	46	2.42	-1.32	0.68	0	5	12	18	1	sw.	Glenn H. Stern.
Mount Ayr.	Clarke.	1,236	18	75.4	+1.4	103	16	48	29†	40	3.05	-0.70	1.30	0	5	16	10	5	s.	A. F. Beard.
Murray.	Sac.	20	75.2	+2.0	105	10	45	29	40	2.66	-1.15	1.07	0	6	10	18	3	se.	M. T. Ashley.	
Odebolt.	Monona.	1,051	11	73.6	-0.6	98	15	45	28	36	3.13	-2.01	0.94	0	9	23	5	3	nw.	E. Starner.
Onawa.	Mills.	960	12	73.2	-0.3	104	16	43	28	38	2.11	-1.72	0.79	0	7	15	16	0	s.	G. G. Perkins.
Pacific Junction.	Lyon.	1,358	12	68.8	-1.5	93	15	41	28	39	4.17	+1.74	1.08	0	9					H. H. McCartney.
Rock Rapids.	O'Brien.	1,422	11	73.0	+1.7	100	14†	37†	27	36	5.00	+1.32	1.15	0	12					W. C. Wyckoff.
Sheldon.	Osceola.	1,212	18	66.6	-2.3	91	15	39	28	37	4.85	+1.19	1.46	0	15	10	18	3	ne.	Dr. A. W. Beach.
Sioux Center.	Sloux.	12	68.6	-2.5	91	15	39	28	35	3.28	-0.35	0.78	0	6	10	15	4	s.	H. G. Doolittle.	
Sioux City.	Woodbury.	1,135	22	71.0	-1.6	95	15	43	28	32	2.86	-0.14	0.96	0	9	15	12	4	s.	J. de Ruyter.
Spencer.	Clay.	1	70.2	.....	97	15	40	29	40	1.75		0.47	0	9	11	13	7	ne.	U. S. Weather Bureau.	
Thurman.	Fremont.	14	73.8	0.0	103	10	44	29	37	2.19	-2.20	0.97	0	6	11	13	7	ne.	S. Gillespie.	
Washta.	Cherokee.	1,157	13	71.6	-1.0	97	15	38	28	50	2.62	-0.16	0.90	0	5	21	8	2	s.	C. R. Paul.
Woodburn.	Clarke.	961	12	74.6	.....	102	10	40	29	44	3.04	-2.54	2.20	0	8	18	12	1	se.	H. L. Felter.
<b>Kansas.</b>																				C. B. McDonough.
Abilene.	Dickinson.	1,157	16	75.3	-1.5	103	9†	44	29	38	4.20	+1.42	1.46	0	6	13	13	5	ne.	T. W. Sherman.
Agricultural College.	Riley.	1,100	53	75.3	.....	105	9†	44	24	39	5.52	+1.90	2.13	0	6	20	5	6	sw.	Prof. J. O. Hamilton.
Alton.	Osborne.	1,651	9	76.6	.....	105	9	49	24	40	3.52	+0.98	2.00	0	9	17	10	4	s.	H. A. Storer.
Atchison.	Atchison.	973	20	75.8	0.0	105														

TABLE 1.—Climatological data for August, 1911. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Sky.				Prevailing wind direction.	Observers.																										
				Mean.				Departure from the normal.				Highest.				Lowest.				Date.				Greatest daily range.				Total.				Departure from the normal.				Greatest in 24 hours.				Total snowfall, unmelted.				Number of partly cloudy days.				Number of clear days.			
Kansas—Continued.	Jewell.	1,540	6	Jewell.	997	43	77.0	-0.3	103	9†	50	30	34	2.94	-1.34	1.15	0	7	20	8	3	se.	C. A. Shinn.	W. F. Isaac.	Prof. H. P. Cady.	Dr. S. B. E. Yohe.	E. V. Bower.	Fred Burnham.	A. J. Fredrickson.																						
Lawrence.	Douglas.	997	43	Leavenworth.	913	67	78.4	+2.2	105	10	54	30	32	3.24	-0.97	2.15	0	4	26 <sup>a</sup>	3 <sup>b</sup>	1 <sup>a</sup>	s.	Dr. A. F. Yohe.	J. L. Steele.	C. J. Norton.	H. F. McDougal.	N. E. Bailey.	P. D. Spellman.	I. K. Huber.																						
Lebanon.	Smith.	1,812	13	Wichita.	3,300	74.8 <sup>c</sup>	105	20	46	25	44	4.60	+2.00	2.78	0	6	26	1	4	s.	Sim Sleef.	C. O. Hunt.	Dr. S. B. Wilson.	W. C. White.	H. F. Ambrose.	Robert Brebner.	J. A. Church.																								
Leoti.	McPherson.	1,333	5	Lindsborg.	Jewell.	1,784	2	74.4	-1.0	103	15	48	24	36	3.10	-0.76	0.90	0	9	0	20	11	ne.	W. F. Isaac.	J. K. Huber.	Dr. S. B. Wilson.	W. C. White.	H. F. McDougal.	P. D. Spellman.	A. J. Fredrickson.																					
Norton.	Oberlin.	2,284	13	Norton.	2,539	24	74.5	-0.1	103	9	45	27	40	3.42	+0.98	1.29	0	10	13	16	2	se.	W. H. Nelson.	U. S. Weather Bureau.	Miss Nettie Maxwell.	A. Schick.	A. S. Peacock.	M. T. Griggs.	M. L. Stone.																						
Oketo.	Decatur.	1,194	3	Osage City.	1,032	16	76.0	-1.0	105	10	49	29	39	6.02	-0.76	1.90	0	9	14	13	4	se.	Dr. G. Ashbaugh.	W. H. Skinner.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	Fr. Adelheim Hess.	J. A. Church.																						
Olathe.	Johnson.	1,032	16	Osage.	1,081	12	76.9	+1.2	100	18	48	29	37	3.21	-1.50	1.39	0	8	20	6	5	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Plainville.	Phillipsburg.	1,939	20	Rooks.	2,156	5	74.6	-2.3	102	15	45	24	41	7.14	+4.33	3.86	0	7	18	8	5	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Pleasanton.	Linn.	862	9	Republc.	1,495	8	75.5	-1.0	101	10†	47	29	35	3.70	-0.76	2.25	0	4	25	5	1	sw.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Russell.	Russell.	1,834	12	Salina.	1,227	27	77.2	-2.0	106	10	44	29	44	8.00	-0.76	6.44	0	6	13	16	2	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Russell Springs.	Logan.	1	76.8	St. Francis.	3,288	3	73.8	-1.0	105	8	42	25	49	3.48	-0.76	1.13	0	10	10	17	4	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
St. Francis.	Cheyenne.	1,227	27	Scott.	2,971	5	76.4	-1.0	107	20	47	28	44	1.39	-0.76	0.92	0	8	18	9	4	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Salina.	Scott.	1,800	1	Smith Center.	1,800	1	76.2	-1.0	105	10	48	29	38	3.05	-0.76	2.44	0	5	17	11	3	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Topeka.	Shawnee.	997	25	Valley Falls.	913	12	76.8	+1.4	104	10	52	29	32	4.44	-0.76	2.38	0	10	22	7	2	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Vinland.	Douglas.	880	2	Wakeeney.	2,456	23	76.2	-0.8	106	20	45	28	53	2.29	-0.76	0.01	0	7	23	4	4	s.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Wallace.	Trego.	41	75.5	Wamego.	3,303	41	77.2	-0.8	106	9	42	28	45	0.90	-0.76	0.32	0	5	26	1	1	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
Wamego.	Pottawatomie.	1,002	18											6.20	+1.56	2.70	0	4	18	11	2	se.	Dr. G. Ashbaugh.	W. C. White.	C. Randecker.	Louis Benecke.	U. S. Weather Bureau.	H. F. Ambrose.	J. A. Church.																						
<b>Missouri.</b>																																																			
Amoret.	Bates.	850	3	Appleton City.	853	22	77.7	-0.9	105	10	48	29	38	3.05	-1.14	1.60	0	5	17	11	3	s.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Arlington.	St. Clair.	853	22	Jefferson.	913	24	78.4	+0.9	109	10	48	30	43	2.86	-1.25	1.25	0	6	10	21	0	ne.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Arthur.	Phelps.	695		Kansas City.	963	22	76.2	+0.1	103	10†	44	29	45	3.12	-0.90	2.03	0	4	18	11	2	sw.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Avalon.	Livingston.	767	19	Charlton.	652	33	77.0	+1.6	103	10	49	30	33	2.30	-1.72	0.68	0	8	15	3	10	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Bagnell.	Miller.	594		Cedar.	750	7	73.2	-1.0	98	10	45	29	39	2.27	-1.90	1.16	0	3	27	4	0	sw.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Bethany.	Harrison.	881	22	Cooper.	1,070	24	74.9	-1.9	102	10	47	29	39	4.83	+1.17	1.33	0	7	18	5	8	sw.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Bolivar.	Polk.	1,070		Chariton.	600	36	75.5	+0.8	105	9	50	30	37	2.12	-1.25	1.20	0	5	15	3	10	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Bonneville.	Bonnie.	1,070		Boone.	652	23	75.5	+0.8	105	9	50	30	37	1.86	-1.18	1.10	0	5	21	7	3	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Brunswick.	Conception.	652		Callaway.	818	21	75.8	-0.5	107	9	48	29†	38	3.07	-0.81	1.60	0	3	18	12	1	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Columbia.	Conception.	652		Glasgow.	618	33	75.0	-1.4	101	10†	49	29	44	1.71	-1.30	0.98	0	5	22	1	1	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Crocker.	Eldorado Springs.	982		Howard.	725	29	77.3	+1.3	107	9	50	30	35	1.94	-1.02	0.90	0	6	15	13	3	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Darby.	Fayette.	750	7	Howard.	725	29	77.3	+1.3	107	9	45	29	41	3.08	-1.30	1.30	0	5	16	10	5	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Dickinson.	Fulton.	818	21	Howard.	618	33	75.0	-1.4	101	10†	49	29	44	1.71	-1.30	0.98	0	5	22	1	1	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Grant City.	Grant.	1,130	20	Howard.	618	33	75.0	-1.4	101	10†	49	29	44	2.92	-1.01	1.45	0	4	25	4	2	sw.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Harrisonville.	Cass.	912	40	Howard.	618	33	75.0	-1.4	101	10†	51	29	40	1.41	-1.21	0.60	0	5	16	2	13	s.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Hazelhurst.	Livingston.	19		Howard.	618	33	75.0	-1.4	101	10†	46	30	43	5.80	+2.90	2.52	0	10	14	4	13	e.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Hermann.	Gasconade.	482	38	Howard.	618	33	75.0	-1.4	101	10†	43	30	40	6.00	+2.66	2.20	0	8	8	14	9	s.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Houston.	Texas.	1,280	20	Howard.	618	30	75.3	-2.4	100	9	47	30	39	4.29	+1.70	3.05	0	8	21	0	10	e.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Jefferson City.	Cole.	628	30	Howard.	618	30	75.3	-1.4	109	10	47	30	29	2.31	-2.44	1.50	0	4	15	13	3	s.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Kansas City.	Jackson.	963	22	Howard.	618	30	78.0	+2.2	104	9	55	29	29	2.45	-1.55	1.10	0	7	22	6	3	sw.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Kidder.	Caldwell.	1,017		Howard.	618	24	76.5	+1.4	103	10	48	29	39	2.45	-1.55	1.10	0	7	22	6	3	sw.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Lamont.	Pettis.	863	24	Howard.	618	24	77.8	-1.7	99	10	48	29†	28	4.53	+1.33	1.58	0	6	10	9	12	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Lebanon.	Laclede.	1,265	23	Howard.	618	30	76.8	+1.2	102	9†	48	30	41	2.46	-0.81	0.80	0	8	21	0	10	s.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Lexington.	Lafayette.	813	30	Howard.	618	24	78.2	+1.9	106	9	49	29	41	2.30	-1.96	1.33	0	3	19 <sup>a</sup>	8 <sup>b</sup>	3 <sup>c</sup>	e.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Liberty.	Clay.	864	30	Howard.	618	17	75.0	-1.4	106	9	48	30	42	9.27	+5.40	4.05	0	6	20	5	6	se.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Lockwood.	Dade.	1,088	17	Howard.	618	21	78.0	+2.1	106	9†	48	30	42	2.09	-1.57	0.82	0	7	25 <sup>a</sup>	4 <sup>b</sup>	1 <sup>c</sup>	e.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.	W. S. Brockman.	W. H. Skinner.																						
Marshall.	Saline.	779	21	Howard.	618	21	78.0	-1.4	101	11†	49	29	34	2.86	-1.60	1.59	0	5	23	0	8	s.	Derby Fruit Farm.	T. C. Brown.	George V. Randolph.	J. T. Armstrong.	F. G. Ashbaugh.																								

<sup>a</sup>, <sup>b</sup>, <sup>c</sup>, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

<sup>†</sup> Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for August, 1911. District No. 6, Missouri Valley.*

Stations.	Watershed.	Day of month.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	
<i>Wyoming.</i>																																		
Arapahoe.	Bighorn.																																	0.22
Barnum.	Powder.																																0.85	
Basin.	Bighorn.																																0.28	
Bennett.	North Platte.																																1.03	
Big Creek Station.	do.																																T.	
Burns.	South Platte																																1.61	
Casper.	North Platte																																0.58	
Centennial.	do.	T.	T.	T.	T.																												T.	
Cheyenne.	South Platte	T.	.06	T.	T.																												.02	
Chugwater.	North Platte																																1.35	
Clark.	Clarks Fork.	.05	.45	T.	.24	.29	.02																									0.58		
Cody.	Bighorn.	.19	.21	.06	.14	.04	.08																									1.17		
Crazy Creek.	Clarks Fork.	.01	.07	.02	.23	.13	.07	.05																							.04			
Dome Lake.	Tongue.	.45	.35																													1.70		
Douglas.	North Platte	.10																														0.85		
Dubois.	Bighorn.																															T.		
Eatons Ranch (o).	Tongue.	.08	.37																														0.90	
Echeta.	Powder.																																	
Elk Mountain.	North Platte	.06																															0.04	
Encampment.	do.	T.																															0.74	
Ervay.	do.																																	
For Laramie.	T.	.21																															0.37	
Fox Park.	do.	T.																															T.	
Germany.	Bighorn.	T.																															1.28	
Gillette.	Powder.	.05	.03	.01	T.	T.																										0.13		
Horse Creek.	North Platte	.21	.08																													0.64		
Hunters Station.	Powder.																																0.73	
Hyattville.	Bighorn.																																	
Jireh.	Niobrara.	.02																															1.13	
Kirtley.	Bighorn.	T.	.20	.15	.20	T.	.20	T.																								0.85		
Kirwin.	Bel Fourche	.16	.24																														0.80	
Knowles.	North Platte	.03																															1.79	
Lagrange.	Bighorn.																																1.08	
Lander.	do.	T.	T.	T.	T.	.15																										0.22		
Laramie.	North Platte	T.																															0.83	
Leo.	do.																																	
Lolabam Ranch.	Bighorn.																																	
Lovell.	do.	.02	T.	.15	.06	.07	.11																									0.41		
Lusk.	Niobrara.																																1.02	
Manville.	do.	.06																															1.15	
Moorecroft.	Bel Fourche	.15	.30	.01	.35	.40	.05																									1.75		
Moore.	North Platte																																0.75	
Newcastle.	South Fork Cheyenne.	.41	.12	.18	.21	.67																										3.69		
Pathfinder.	North Platte	T.	T.	T.	.06																												0.11	
Phillips.	South Platte	T.																																
Pine Bluff.	Bighorn.	.03	.03																														0.65	
Powell.	do.																																0.51	
Rawlins.	North Platte																																0.08	
Riverton.	Bighorn.	.22																															1.00	
Rocky Point.	Powder.	.14	.20																														3.19	
Saratoga.	North Platte																																	
Seven Mile Creek.	do.	.02																															1.40	
Sheridan.	Tongue.	.18	.21	.02	.25	.04																										T.	1.24	
Shoshone Dam.	Bighorn.	T.	.40	T.	.12	.01	T.																									0.58		
Soldiers Home.	Powder.	.02	.13	.03	.09	.07	.05	T.																								0.37		
South Pass City.	North Platte																																0.36	
Thermopolis.	Bighorn.	.09	.10	.02																													1.24	
Verona.	Tongue.	.18	.30																														1.24	
Wheatland.	North Platte	T.																															0.59	
Wiants Ranch.	do.																																0.62	
Wiley.	Bighorn.	.39	.41	.33	T.	.16	.15																									1.72		
Woodrock.	Tongue.	.39																															2.00	
Worland.	Bighorn.	T.	.11	.01	.01	.03																									0.80			
Wyncote.	North Platte	.64																															T.	
Yellowstone Park.	Yellowstone	.04	.01	.51	.02	.07																										0.66		
(1) Fountain.	Madison.																																0.80	
(2) Gallatin.	do.	.55	.02																													0.40		
(3) Grand Canyon.	Yellowstone	.15	T.	.10	.05	.01	.01																								0.21			
(4) Lake Yellowstone.	do.	.05	.01																															
(5) Norris.	do.	.41	T.	.11																													0.58	
(6) Riverside.	Madison.	.12	.24																														1.15	
(7) Soda Butte.	do.	.02	.03	.43	.13	.03	.02																									0.71		
(8) Sylvan Pass.	Bighorn.	.03	.44	.14	.10					</td																								

TABLE 2.—*Daily precipitation for August, 1911. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.				
<i>Montana—Contd.</i>																																					
Chester.....	Missouri.....	.04	.62	.04	.24	.12	.03																											1.34			
Chinook.....	Milk.....	.07	.12	.16	.10																													0.99			
Chouteau.....	Missouri.....																																				
Clear Creek.....	Milk.....	T.	.12	.88	T.	.98		T.	.16	.24		.02																					2.89				
Clemens.....	Missouri.....	.11	.31	T.	.60	.05	.15	.22	.07	.07	.02																					2.32					
Clydepark.....	Yellowstone.....	.36	.16	.12	.06	.14	T.	.04	.16	T.																							1.47				
Conrad   .....	Marias.....	.42	.16	.16	.02	.08	.12	.08	.79																								2.45				
Copper.....	Musselshell.....																																				
Crow Agency.....	Bighorn.....																																			1.84	
Culbertson.....	Missouri.....																																			0.87	
Cummings.....	Bighorn.....																																			0.99	
Cut Bank.....	Marias.....	.08	.14	.08			T.	.16																											1.48		
Decker.....	Tongue.....																																			0.60	
Denton.....	Missouri.....																																				
Dillon.....	Jefferson.....	.02	.31	.09	.47	.36	.10	.02		.03																								1.44			
Dirty Creek.....	Musselshell.....	.03	.75	.01	.68	.60	.18	.03		.18	.19																						2.66				
Dry Creek.....	Missouri.....	.17	.06	.07																															0.67		
Dry Wolf Camp.....	do.....	.01	.13	.13	.74	.23	.30																											3.54			
East Gallatin River.....	Gallatin.....																																			1.74	
Ekalaka.....	Little Missouri.....																																			2.77	
Elkhorn.....	Jefferson.....																																				1.25
Evans.....	Missouri.....																																				
Fallon.....	Yellowstone.....	.08	.10																																	2.04	
Fish Creek.....	Jefferson.....	18	.99	.36																																2.31	
Flathead Creek.....	Yellowstone.....	* * *	*	*	*	*																														1.91	
Forsyth.....	do.....																																				
Fort Benton.....	Missouri.....	.35	.25																																	3.30	
Fort Shaw.....	Sun.....	.02	.57																																	1.60	
Foster.....	Bighorn.....	T.	.30	.03	.06	.03	.10	.12	T.																									0.90			
GarNeil.....	Musselshell.....	.75	.05	.06	.75	.35	.70	.35																										3.91			
Glasgow.....	Milk.....	*	.52																																	1.83	
Glendive   .....	Yellowstone.....	.80	.04																																	1.83	
Goldbutte.....	Marias.....	.19	.20	.21	.31	.05	.47	.18	.02	.10																							1.93				
Graham.....	Powder.....	.14	.13	.07	.04	.65	.37																											3.02			
Grayling.....	Madison.....	.06	T.	.16	.30	.04																												0.56			
Great Falls.....	Missouri.....	.03	.61	.73	.14	.08	.40	.08	.16	.05																							2.67				
Half Moon Pass.....	Musselshell.....																																				
Half Way House.....	Missouri.....																																			1.89	
Harlowton.....	Musselshell.....	* 1.24		.04																															1.77		
Havre.....	Milk.....	T.	.20																																2.24		
Helena.....	Missouri.....	.26	.12	.11	.02	.15	.01																											0.87			
Highwood.....	do.....																																				
Huntley.....	Yellowstone.....																																			0.90	
Jones Canyon.....	Gallatin.....	.27	.23																																	1.63	
Jordan.....	Missouri.....																																				
Knobles Ranch.....	Milk.....	.10	.22																																	2.04	
Lewistown.....	Missouri.....																																			4.15	
Livingston.....	Yellowstone.....																																				
Lonetree.....	Missouri.....																																			2.98	
Malta.....	Milk.....	T.	.29																																		
Medicine Lake.....	Missouri.....	.32	.08																																	2.11	
Melstone.....	Musselshell.....	.60	.15																																	1.90	
Mildred.....	Yellowstone.....	T.	.61	T.																																1.67	
Miles City.....	do.....																																			1.59	
Norris.....	Madison.....																																			0.90	
Nye.....	Yellowstone.....	.04	.15																																	1.52	
Olsen Creek.....	Jefferson.....	.23	.52																																	1.71	
Pipestone Pass.....	do.....	T.	.58	.05	.10	.04	.21	.10	.10																									1.35			
Poplar.....	Missouri.....																																			1.74	
Red Lodge.....	Yellowstone.....	.14	.22	.15	.21																														1.54		
Renova.....	Jefferson.....	T.	.16	.07																															0.50		
Ryegate.....	Musselshell.....																																			1.83	
Seville.....	Marias.....																																			1.29	
Shelby.....	do.....	.09	.02																																	1.53	
Sidney.....	Yellowstone.....																																			2.10	
Spokane Ranch.....	Missouri.....	.46	.08	.02																																0.93	
Springbrook.....	Missouri.....					</td																															

TABLE 2.—*Daily precipitation for August, 1911. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>North Dakota—Con.</i>																																		
Hettinger.	Cannon Ball	.03	.20	.10		.05	1.10	.07	.03	.46	.01																						2.07	
Howard.	Missouri.	T.	.12			.21		.02	T.	T.	.05	T.	T.	.01																		2.12		
Jamestown.	James.	.15	.10	.07	.08		2.25		.80		.30		.80		.70																6.72			
Lamoine.	Missouri.								.52	.58																						3.82		
McHenry.	James																															3.94		
Manfred.	Sheyenne																															3.33		
Marmarth.	L'le Missouri																															1.62		
Marstonmoor.	James.	.19	T.	.93	.08	T.	T.	1.02	T.	.26																					3.72			
Medora.	L'le Missouri																															1.28		
Melville.	James.																															4.76		
Mott.	Cannon Ball	.08	.24		.08																											1.94		
Napoleon.	Missouri.																															2.19		
New England.	Cannon Ball																																	
New Rockford.	James.																															5.67		
New Salem.	Heart.																															3.32		
Orange.	Cannon Ball																																	
Schafer.	L'le Missouri																																	
Steele.	Missouri.																																	
Washburn.	do.																															2.53		
Williston.	do.																															2.27		
<i>South Dakota.</i>																																		
Aberdeen   .	James.	.05	T.	1.80	.10		.10		.62	.10	.10	.05	T.	T.	.25		T.	.05	T.		T.	.25	.20		T.						5.32			
Academy.	Missouri.	.78	.92	.03		.51				T.	T.	.11	T.					T.	.03	.08	.21									2.67				
Alexandria.	James.	.74																													2.50			
Ardmore   .	Cheyenne																														3.32			
Armour.	Missouri.																														2.43			
Bellefourche.	Cheyenne.	.26																													1.99			
Brookings.	Big Sioux.	1.22																													3.81			
Camp Crook.	L'le Missouri.	.89	.07																												2.88			
Canton.	Big Sioux.																																	
Cascade Springs.	Cheyenne.	.24	T.	1.64	1.02																										4.69			
Castlewood.	Big Sioux.	.01	1.44	T.	T.	.44	.22	.08	.17	T.	T.	.37	T.	.11	T.		T.		T.	.25	.20		T.						3.26					
Centerville.	Missouri.	T.	.72	T.		.37	.31	.02	.42	T.	.25	T.	.05	.02			T.		T.	.25	.20	T.							4.09					
Clark.	James.	T.	1.09	T.	T.	.20	.10	.04																						1.76				
Cottonwood.	Missouri.																														2.41			
Custer.	Cheyenne.																														3.12			
Daviston.	Grand.	.70	.10																												4.19			
Deadwood.	Cheyenne.	.60	.25																												3.55			
Deerfield.	do.	.12	.03	.08	.42	.50																									2.55			
De Smet.	James.	T.	1.00																													2.25		
Dowling.	Cheyenne.	.30	T.																													1.80		
Dumont.	do.	.68	.50	.22	.08	.15	.70																								3.63			
Eales.	Missouri.	.37	.32																													2.18		
Edson.	Cheyenne.	.62	.55	.06																												1.67		
Elk Mountain.	do.	.20	.02	.07	.08	.75																									4.33			
Ellington.	Grand.																																	
Englewood.	Cheyenne.	.40	.20	.10	.20	.80																									3.70			
Eureka.	Missouri.	.34	.81																													3.57		
Fairfax.	do.	.40																														2.83		
Faulkton.	James.	.60	1.44																													3.63		
Flandreau.	Big Sioux.																															3.19		
Forestburg.	James.	.57	.60																													4.28		
Frederick   .	do.																																	
Gann Valley.	Missouri.	1.24	.03																													3.19		
Greenmont.	Cheyenne.	.25	.20	.30	.25	.70																									4.39			
Greenwood.	Missouri.	.69	T.																												2.30			
Hardy Ranger Sta.	Cheyenne.	*																																
Harveys Ranch.	do.																																	
Hermosa.	do.	.03	.01																															
Hightower.	Missouri.	1.10	.75																													2.27		
Hopewell.	Cheyenne.	.48	.19																													2.52		
Howard.	James.	.07	.75	T.	T.	.16	.40	T.	.48	.05	T.	T.	.61	T.																4.29				
Howell.	do.	2.00	1.89																												4.87			
Huron.	do.	.72	.11																												2.82			
Ipswich.	do.	.31	.17																												4.11			
Kadoka.	White.	.99																													3.86			
Kennebec.	Missouri.	2.12	1.44		</td																													

TABLE 2.—*Daily precipitation for August, 1911. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for August, 1911. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Nebraska—Contd.																																		
Genoa.	Loup.	1.28	.37	1.14	.25	T.		T.	.15		T.								.63	.01	.09		.05	T.										2.54
Gordon.	Niobrara.	.12	.68	2.05																													3.58	
Gosper.	Republican.	.59	.16	.38																													6.21	
Gothensburg.	Platte.	.14																															3.93	
Grand Island    .	do.	1.83	.85	T.	.04																												6.84	
Grant.	Republican.	T.	.14	.17																													1.64	
Greeley.	Loup.	.60		.20		.03																											1.63	
Halsey.	do.	.37	T.	1.28		.09																											2.39	
Hartington    .	Missouri.	1.45		.45																													4.58	
Harvard.	Blue.																																	
Hastings    .	do.	.95	1.02		.12	.04	T.																										6.15	
Hayes Center.	Republican.	.43	.12	.18	1.25	.02		T.	.55																							4.45		
Hay Springs.	Niobrara.	.28		1.35	.93			T.	T.																							3.57		
Hebron.	Blue.	.54		.09	1.05	.04	T.																									6.13		
Hemingford    .	Niobrara.	.03	.66	.92	.24																												2.15	
Hillside.	North Platte.	.15	.35	.30	.75																												1.98	
Holdredge    .	Republican.	.50	2.75	.78																													6.19	
Hooper.	Elkhorn.	1.03		.40																													1.98	
Hull (near).	North Platte.	.01		.03	.05																												1.30	
Imperial.	Republican.	.17	.03	1.45	.03	.15	.04	T.	.62	.32																						3.45		
Kearney.	Platte.	.66	1.44	.14																													5.38	
Kimball.	South Platte.	T.	.07	T.	.17																												0.80	
Kirkwood.	Niobrara.	.79	T.	1.25	T.																												2.86	
Kowanda    .	North Platte.	.85	.14	.07	.18																												2.94	
Lexington.	Platte.	.30	.57	.29		.06																											4.79	
Lincoln.	do.	.71	.24	.21		.02																											4.32	
Lodgepole.	South Platte.		.11	.08																													1.14	
Loup.	Loup.	.56	.08		.25	T.																											2.06	
Loyal.	do.	1.11	1.35	.15	.85	T.	T.	T.																									3.76	
McCook.	Republican.	.57	.57	.47	.22	.20																											4.34	
Madison.	Elkhorn.	1.10				.20																											2.31	
Marquette.	Platte.	1.47	.03	T.	T.																												4.15	
Mary.	Loup.	.35		.15	1.44		.02	.04																								3.81		
Minden.	Blue.	.05	1.86	.90	.47		.01	T.	.03																							6.46		
Mitchell    .	North Platte.	T.		.45	T.		.03	T.	.09	.04																						0.71		
Mullen.	Loup.	.76	.73	1.08	.42		.05		.01	.11																					3.90			
Nebraska City.	Missouri.	1.00		T.																														1.73
Norfolk.	Elkhorn.	.88	T.	.04	.70																												2.53	
North Loup.	Loup.	.45	.07	.32	T.																												2.95	
North Platte.	Platte.	.02	.11	.68	.84																												2.19	
Oakdale.	Elkhorn.	.76	.01	.47		.01	T.	T.	1.11	.05																					3.44			
Omaha.	Missouri.	.38		.21	T.																												0.71	
Palisade.	Republican.	.74	.05	.57	.64																												3.55	
Pawnee City.	G't Nemaha.	1.55		.95	.67																												5.72	
Paxton.	South Platte.	T.	T.	.40	0.23	1.13																										4.68		
Plymouth    .	Blue.	.72	.17	.37	.03																												3.84	
Purdum.	Loup.	.19	.09	1.55		.01	.01	T.	.16	T.	.00																				2.66			
Ravenna.	do.	.70	.52																														4.26	
Red Cloud.	Republican.	.02	1.7	3.90	T.	.54	.70		.04																						6.66			
St. Libory.	Loup.	.71		.08		.05		.03	.01																						3.09			
St. Paul.	do.	.50		.05		.04																										2.75		
Santee.	Missouri.	.15	1.25	T.																												2.81		
Sargent    .	Loup.	.75	.75																													4.65		
Schuyler.	Platte.	2.50		T.	.35	.02																										3.37		
Scottsbluff.	North Platte.	.05		T.																													1.04	
Seward    .	Blue.	1.25	T.	.08		.05																										3.98		
Sidney.	So. Platte.	.12		.02	.16																											2.33		
Springview.	Niobrara.	.93		1.20																												3.22		
Stanton.	Elkhorn.	1.87				.20																										3.31		
Stratton    .	Republican.	.30																														2.55		
Superior    .	do.	.80		.15	.60																											3.55		
L'le Nemaha.	2.00	.06	T.	.19																												3.41		
Tecumseh.	G't Nemaha.	1.45																																

TABLE 2.—*Daily precipitation for August, 1911. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	
Iowa—Continued.																																		
Little Sioux.	Little Sioux.	.70																																4.20
Logan.	Missouri.	.68																															2.42	
Mount Ayr.	do.	T.	.95																														3.05	
Murray.	do.	.19	.21																													2.66		
Odebolt.	do.	.04																														2.11		
Onawa.	do.	.94																														3.13		
Pacific Junction.	do.	.65																														4.17		
Roch Rapids.	Big Sioux.	1.08																														2.11		
Sheldon.	Floyd.	T.	1.15																													5.00		
Sibley   .	Big Sioux.	.03	.23	.40	.01	.32	.91																								4.85			
Sioux Center.	Floyd.	T.	.78																													3.29		
Sioux City.	Missouri.	.96																														2.86		
Spencer.	Little Sioux.	.16	.15	.44																												1.75		
Thurman.	Missouri.	.09	.97																													2.19		
Washta.	Little Sioux.	.47																														2.62		
Woodburn.	Chariton.	.03	.18																													3.04		
Kansas.																																		
Abilene   .	Smoky Hill.	T.	1.46																													4.20		
Agricultural College.	Kansas.	T.	2.13																													5.53		
Alton.	do.	T.	2.00	T.	.61	.01	.03																								3.56			
Atchison.	Missouri.	2.00																													3.52			
Beloit   .	do.	T.	.02	.84																											4.25			
Blakeman.	Republican.	.19																													2.37			
Blue Rapids   .	Blue.																																	
Centralia.	do.	T.	1.22																												5.10			
Chapman.	Smoky Hill.	.45																													4.82			
Clay Center.	Republican.	.78																													4.68			
Colby.	do.	.40																													1.31			
Concordia.	do.	T.	1.63																												5.78			
Densmore.	Solomon.	.42	.55	.10	.85																										3.43			
Dresden   .	Republican.	.08	.18	.14	T.	.04																									1.82			
Ellsworth.	Smoky Hill.	.13																													1.92			
Enterprise.	do.	.125																													4.03			
Eskridge.	Kansas.	1.15																													2.39			
Farnsworth.	Smoky Hill.	.44	1.02																												5.70			
Fort Scott   .	Marmaton.	.68	T.	.39	.62																										3.88			
Frankfort.	Blue.	T.	1.25																												3.88			
Garnett.	Osage.	1.40																													3.51			
Goodland.	Smoky Hill.	.25	.66																												2.51			
Gove.	Blue.	.83	.30																													1.85		
Hanover.	do.	.70																													5.54			
Harrison.	Republican.	T.	.06	1.11	.43	.20	.40																							4.49				
Hays.	Smoky Hill.	.46																													4.47			
Hill City.	Solomon.		.15																												4.30			
Horton.	Kansas.	T.	.22																												4.06			
Hoxie.	Solomon.	T.	.20																												3.31			
Jewell.	Republican.																																	
Lawrence.	Kansas.	1.15	T.																												2.94			
Leavenworth.	Missouri.	2.15																													3.24			
Lebanon.	Solomon.	T.	2.78																												4.60			
Leoti.	W h i t e Woman.	T.	.60																															
Lindsborg.	Smoky Hill.	T.	T.	.90	.06	.12	.04																								3.10			
Mankato.	Republican.																														5.47			
Minneapolis.	Solomon.	1.75																													4.77			
Moran.	do.	.01	.89	3.04																														
Natoma   .	Saline.	.18																													3.42			
Norton.	Republican.	T.	.75	T.																											2.13			
Oberlin.	do.	.05	.50																															
Oketo.	Blue.																																	
Olathe.	Kansas.	1.39																													6.02			
Osage City   .	Osage.	T.	.91																												3.58			
Ottawa.	do.	1.05																													3.92			
Phillipsburg.	Solomon.	T.	3.86																												7.14			
Plainville.	Smoky Hill.	.40	1.05																												3.75			
Pleasanton.	Osage.	.80	.17																												2.44			
Republie.	Republican.	T.	.87																												3.70			
Russell.	Smoky Hill.	.16	1.30																												5.13			
Russell Springs.	do.	T.																													3.48			
St. Francis.	Republican.	.60	.38																												3.29			
Salina.	Smoky Hill.	T.	1.85																												1.39			
Scott.	W h i t e Woman.	T.	.10	.03																											2.90			
Smith Center.	Solomon.	6.44																													8.00			
Topeka.	Kansas.	.20	1.19																												4.44			
Valley Falls.	do.																														4.33			
Vinland.	do.																														2.58			
Wakeeney.	Smoky Hill.	.14	.36																															

TABLE 2.—*Daily precipitation for August, 1911. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																													Total.						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
<i>Missouri—Contd.</i>																																					
Fulton	Missouri	.12						T.																										3.56			
Glasgow	do	.36																																1.71			
Grant City	Grand	T.	1.45				T.	.38																										2.92			
Harrisonville	Osage	1.52	1.93	.66				.03																										7.33			
Hazelhurst	Grand		.36				.16	.04																										1.41			
Hermann	Missouri	1.12					T.	T.	.22	.10	T.				T.	T.																		5.80			
Houston	Gasconade						.67	.05																										6.00			
Jefferson City	Missouri	.55					.15																												4.29		
Kansas City			1.50					.01																											2.31		
Kidder	Grand	.01	1.10	.20				.22																											2.45		
Lamotte	Missouri	.01	.70	.20			T.																												2.52		
Lebanon	Osage			.86																															4.53		
Livingston	Missouri	.49	.80	.34			T.																												2.46		
Liberty	do		1.33				T.																												2.30		
Lockwood	Osage	.04	.49	2.53	T.		T.																												9.27		
Marshall	Missouri		.16	.14		T.																													2.09		
Maryville	do	.19	1.59				.12																												2.86		
Mount Vernon	Osage		.42	2.60	.15	.03																													12.04		
Nevada	do		.23	.52	T.																														3.04		
Oregon	Missouri		1.43		1.10	.09																													3.58		
Osceola	Osage																																				
Pattensburg	Grand			1.26			.25																													2.16	
Rolla	Gasconade			.09	T.	.05																														2.09	
St. Charles	Missouri	.51	T.				.25	.20																											3.93		
St. Joseph	do		2.24				.08																													4.43	
St. Louis (1)	Mississippi	.39	.28	.02			1.47	.01																											3.51		
St. Louis (2)	do	.40	.45	.07			.48	1.26																											4.73		
Sublett	Chariton		.35				1.87																													2.22	
Trenton	Grand	.33	.13				.25																													1.85	
Unionville	Chariton			.40			2.00																													2.90	
Warrensburg	Missouri		.87	.20			T.																													2.10	
Warrenton	do		.70				.87	.03																												5.89	
Warsaw	Osage		.62	.49																																	3.57
Wheatland	do		1.95	.10	.60																															3.55	

\* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations, for August, 1911. District No. 6, Missouri Valley.

Date.	Wyoming.														Montana.													
	Basin.		Cheyenne.		Fort Laramie.		Lander.		Newcastle.		Pathfinder.		Sheridan.		Yellowstone Park.		Billings.		Dillon.		Havre.		Helena.		Lewis-town.		Malta.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	86	46	78	45	88	45	85	44	84	43	87	.....	82	42	69	39	75	49	66	34	71	56	67	51	69	44	77	57
2....	84	44	81	47	80	60	72	49	75	44	86	.....	60	46	58	42	65	55	67	33	67	56	65	49	58	49	65	55
3....	77	47	72	44	79	50	72	41	80	48	81	.....	70	50	65	37	75	45	69	32	75	53	69	49	70	43	76	55
4....	76	48	79	45	85	47	76	45	76	44	83	.....	75	51	66	43	74	54	79	37	72	56	63	51	71	40	73	46
5....	79	47	80	48	88	57	78	47	74	49	86	.....	73	52	61	41	78	50	82	40	70	54	67	52	62	50	72	48
6....	86	48	80	54	80	58	77	53	68	54	77	.....	69	51	64	44	74	50	88	42	72	54	70	47	71	47	72	47
7....	90	48	86	48	94	48	88	45	78	46	88	.....	89	48	74	44	83	50	85	42	75	53	78	49	77	43	80	51
8....	86	49	90	56	95	59	89	49	85	54	92	.....	76	56	75	41	71	49	80	40	64	50	66	48	60	44	75	49
9....	87	48	82	55	80	63	88	50	84	56	89	.....	76	54	70	47	64	56	84	45	59	44	65	48	62	41	65	40
10....	89	49	69	54	76	60	74	52	72	58	88	.....	63	54	65	41	74	50	84	44	72	50	72	46	65	48	70	52
11....	90	51	74	54	86	58	84	52	78	58	85	.....	89	48	79	40	75	44	82	48	81	50	81	46	80	41	84	50
12....	92	50	83	57	95	55	88	47	84	58	82	.....	90	48	80	48	91	50	85	46	88	52	87	54	82	49	91	57
13....	94	54	84	58	95	59	89	51	95	62	89	.....	92	48	78	48	95	46	85	38	87	54	86	53	82	46	92	55
14....	94	49	89	57	100	50	88	50	96	58	89	.....	91	48	80	41	92	47	84	36	88	50	89	51	81	45	87	58
15....	92	51	89	62	103	55	89	54	99	60	89	.....	87	52	78	49	85	50	89	36	79	53	83	54	78	49	82	54
16....	90	51	75	55	79	59	81	50	90	64	86	.....	85	56	78	39	86	56	86	38	80	51	81	51	77	52	76	53
17....	91	56	84	52	94	54	89	50	92	60	90	.....	88	51	82	43	90	48	87	38	87	51	87	52	87	48	85	50
18....	95	55	89	56	94	63	89	50	84	60	93	.....	90	57	84	46	92	58	90	39	87	52	87	58	73	52	86	57
19....	96	56	86	52	90	56	92	51	85	58	94	.....	92	57	83	47	89	49	89	36	90	52	90	56	81	45	92	53
20....	93	56	86	61	99	63	90	53	95	62	88	.....	88	51	73	45	87	49	87	38	75	52	71	57	78	47	80	52
Mnss..	84.7	47.6	79.0	51.1	86.2	52.3	81.2	46.5	79.7	51.0	84.6	.....	78.1	47.8	71.6	41.3	78.7	48.0	81.5	38.4	75.9	49.5	74.4	49.3	72.1	44.2	77.3	48.5

Date.	Montana.														North Dakota.														South Dakota.													
	Miles City.		Poplar.		Berthold Agency.		Bismarck.		Dickinson.		James-town.		Williston.		Aberdeen.		Daviston.		Huron.		Kadoka.		Kimball.		Pierre.		Rapid City.															
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.										
1....	78	51	81	54	82	41	79	47	80	43	74	52	79	51	74	47	78	38	78	53	82	.....	83	55	79	51	77	48	55	48												
2....	74	58	74	56	73	52	70	55	71	50	75	47	74	56	68	52	76	51	73	51	78	.....	79	57	68	55	70	51	75	55												
3....	75	57	71	56	63	55	64	55	62	53	61	55	63	55	72	55	66	54	73	58	82	.....	72	57	74	60	70	57	74	50												
4....	76	50	79	48	73	53	73	54	75	49	67	55	73	48	72	58	76	46	78	55	81	.....	78	52	80	57	74	57	74	55												
5....	78	59	65	53	77	44	76	48	76	42	73	45	73	45	71	50	75	49	80	56	79	.....	76	57	74	57	74	57	74	55												
6....	78	57	79	50	70	55	76	57	70	49	74	58	71	54	72	51	70	50	75	60	77	.....	74	58	79	59	71	54	75	54												
7....	90	57	83	54	77	53	78	60	77	53	75	50	70	53	78	64	82	50	79	59	83	.....	82	52	80	59	73	53	83	53												
8....	75	58	74	51	74	56	78	55	75	55	74	59	78	63	84	60	80	55	90	60	88	.....	86	66	90	67	87	63	83	62												
9....	63	56	69	44	60	50	60	53	57	48	67	51	61	46	70	55	72	51	75	61	74	.....	75	58	79	61	72	60	75	57												
10....	69	53	70	50	67	57	67	53	62	50	64	53	67	53	70	55	70	40	75	59	76	.....	77	57	80	60	75	61	70	54												
11....	90	60	85	54	77	52	76	54	76	51	70	45	77	51	74	54	77	55	68	55	75	.....	75	57	68	55	73	61	74	56												
12....	95	62	94	53	86	56	84	60	90	55	88	57	89	56	72	55	82	60	93	59	81	.....	81	59	85	65	82	64	94	57												
13....	92	62	96	71	93	62	90	63	89	57	86	61	96	56	94	65	90	57	98	60	88	.....	87	67	96	71	92	66	96	66												
14....	92	62	91	56	90	59	91	60	90	59	84	59	88	61	92	65	92	63	93	65	95	.....	93	62	96	66	95	62	96	62												
15....	87	63	90	58	82	57	80	58	60	55	82	51	80	60	99	65	90	57	102	64	98	.....	104	65	98	65	104	73	97	61												
16....	85	59	80	54	75	55	76	58	78	56	70	59	75	56	82	66	82	62	84	63	85	65	86	65	82	66	83	64														
17....	87	57	89	54	80	50	81	53	85	50	76	47	80	53	81	54	86	57	89	63	80	58	82	64	87	64	86	64														
18....	92	66	91	54	89	43	83	51	84	48	74	52	89	55	91	52	83	56	85	60	81	58																				

TABLE 3.—Maximum and minimum temperatures at selected stations for August, 1911. District No. 6—Continued.

Date.	South Dakota.						Colorado.						Nebraska.																	
	Sioux Falls. \$§		Water-town. \$§		Yankton.		Denver.			Wray.			Alma.		Bridge-port.		Grand Island. \$§		Hay Springs.		Hebron.		Lincoln.		North Platte.		Oakdale.		Omaha.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	76	53	75	53	77	53	87	52	85	53	83	59	85	49	80	57	83	40	78	60	83	58	77	56	79	50	79	61		
2.....	86	51	70	48	83	54	87	57	89	59	84	64	85	43	86	60	81	58	90	60	85	56	87	51	87	62	87	63		
3.....	78	55	74	55	79	60	82	48	85	50	83	57	83	45	84	58	75	68	80	62	84	64	79	57	84	65	84	66		
4.....	80	55	75	54	81	56	88	52	90	49	83	60	88	42	81	56	80	46	87	61	89	62	81	48	79	52	89	66		
5.....	84	56	80	49	84	60	89	53	86	56	83	59	82	53	84	57	75	63	88	63	77	54	85	56	85	63	88	63		
6.....	88	59	73	51	83	61	92	54	96	60	79	62	77	54	81	54	72	52	78	63	81	66	79	56	83	64	83	70		
7.....	79	58	78	59	81	60	94	55	92	51	85	63	90	46	87	59	85	47	83	64	88	66	85	51	81	55	84	68		
8.....	88	58	87	56	90	63	97	62	102	61	92	65	98	57	92	65	85	58	93	62	94	64	89	66	90	59	90	68		
9.....	87	59	70	56	82	64	87	61	96	62	97	68	82	66	93	68	82	59	97	69	99	67	82	66	84	67	92	74		
10.....	78	60	70	57	76	62	80	58	94	60	89	65	73	56	87	63	72	58	96	68	101	72	83	61	78	63	100	72		
11.....	78	55	71	54	63	57	73	57	82	59	75	67	80	62	69	63	70	58	83	68	85	66	80	63	68	59	82	65		
12.....	94	55	79	54	86	61	83	59	92	58	94	62	99	55	93	61	90	56	96	66	98	68	88	62	96	68	96	68		
13.....	89	61	89	59	91	73	88	59	94	64	95	65	93	53	93	69	94	61	95	70	97	72	93	68	91	70	96	77		
14.....	94	62	93	63	92	71	92	61	98	60	98	68	99	51	97	71	98	54	98	66	99	60	97	60	93	68	97	74		
15.....	94	63	94	62	99	68	91	62	98	68	98	64	94	56	100	63	99	58	103	69	96	62	95	65	100	75	95	75		
16.....	93	67	82	64	87	66	85	63	94	67	98	70	89	55	98	70	78	58	97	71	102	76	92	65	90	68	100	76		
17.....	90	58	81	55	86	59	88	58	89	67	90	66	91	60	90	66	98	54	88	67	88	68	88	62	89	63	90	72		
18.....	85	58	84	55	82	63	90	62	98	64	92	63	98	58	93	68	90	59	98	68	100	78	86	60	89	70	90	70		
19.....	86	60	87	55	84	65	88	62	91	62	89	65	98	67	86	64	85	55	88	63	84	67	86	61	84	68	88	67		
20.....	80	58	83	55	83	62	86	60	89	62	93	68	90	57	87	68	92	64	88	69	80	67	88	65	83	61	88	67		
21.....	84	63	78	64	81	62	75	60	82	61	82	67	93	55	83	67	76	56	83	66	87	70	80	61	82	62	83	70		
22.....	68	46	64	40	66	48	70	56	75	54	63	55	65	46	67	53	66	46	71	57	72	57	62	51	68	51	71	58		
23.....	70	47	70	40	66	54	79	53	68	52	71	55	71	53	66	53	65	48	70	55	71	55	67	50	68	53	68	58		
24.....	70	50	60	48	73	50	65	50	74	51	77	47	70	47	75	46	63	49	75	47	78	49	68	48	74	44	79	52		
25.....	84	50	82	39	78	52	76	45	82	39	80	48	83	36	80	45	82	36	77	53	78	55	80	41	77	45	78	58		
26.....	85	50	79	39	86	56	86	54	90	58	91	53	78	49	87	52	73	42	84	55	86	54	87	56	85	55	86	60		
27.....	60	47	63	55	63	46	65	51	76	50	66	54	68	45	64	55	61	45	69	55	71	52	70	48	62	48	71	55		
28.....	72	38	60	34	66	42	85	47	79	46	73	43	84	40	70	42	84	38	71	45	72	45	70	41	67	37	70	48		
29.....	72	42	71	35	76	53	88	56	91	52	80	49	91	48	88	48	88	45	76	45	77	47	84	50	76	46	76	54		
30.....	82	50	88	49	85	58	88	58	94	54	93	55	92	43	86	58	85	52	84	57	84	58	88	55	83	59	82	88	58	
31.....	92	55	93	48	90	58	94	56	95	50	96	56	95	45	92	56	93	48	93	55	95	61	92	50	89	54	91	62		
Means ...	82.1	54.8	77.5	51.8	80.7	58.6	84.4	56.2	88.6	56.8	85.5	60.1	84.8b	50.8b	84.3	59.3	81.0	51.8	85.3	61.1	87.1	62.4	82.5	56.3	81.0	57.0	85.6	65.1		

Date.	Iowa.						Kansas.						Missouri.														
	Valentine, Nebr.		Clarinda. \$§		Sibley. \$§		Sioux City.		Colby.		Concordia.		Salina.		Topeka.		Wakeeney.		Columbia.		Kansas City.		St. Louis.		Union- ville. \$§		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1.....	81	44	76	59	75	53	77	57	86	54	83	64	80	67	86	67	85	60	85	64	85	70	86	71	84	64	64
2.....	85	57	87	51	84	50	85	54	92	58	90	62	89	65	90	64	92	64	87	59	87	66	84	68	86	53	86
3.....	74	55	85	57	76	54	80	61	83	56	84	64	85	63	83	64	86	59	82	66	86	68	83	60	83	60	83
4.....	76	52	90	63	81	55	82	61	92	58	87	65	88	66	86	66	88	61	82	64	85	68	83	69	91	64	84
5.....	83	57	90	64	83	58	85	62	84	56	86	64	83	67	84	69	81	59	86	61	83	69	85	70	95	65	85
6.....	78	53	87	62	74	60	87	63	83	68	84	64	88	64	90	65	85	64	90	64	89	68	88	62	86	62	86
7.....	85	55	91	66	79	59	81	63	93	58	88	67	90	68	92	67	89	65	93	68	94	77	88	66	93	62	86
8.....	91	68	88	58	87	57	87	62	103	64	100	66	98	67	96	72	100	65	95	73	94	74	90	74	92	60	86
9.....	79	63	102	62	83	60	87	68	105	66	105	67	104	70	104	76</											